
To post messages to the linux list, send email to:

`aprsspec@lists.tapr.org`

To unsubscribe from this mailing list, surf to:

`http://www.tapr.org/cgi-bin/lyris.pl?enter=aprsspec`

or send email to:

`lyris@lists.tapr.org`

with the following line in the body of the message:

`unsub aprsspec`

The host of this list is:

Tucson Amateur Packet Radio (TAPR)
`tapr@tapr.org`
`http://www.tapr.org`
8987-309 E Tanque Verde Rd. #337, Tucson, AZ 85749-9399,
phone 940-383-0000, fax 940-566-2544

Just so that you have all the commands neatly contained in one place, here is just about everything you will need to know. Note that this list is running on a Lyris server. Please be aware that the commands might be different from those that you are used to using on other list servers. (For more information on Lyris, see `<http://www.lyris.com/>`.)

1. First of all, almost everything that you might need to do on the server is most easily and effectively performed via Lyris's Web interface at `<http://www.tapr.org/cgi-bin/lyris.pl>`.
2. In case you do not have Web access, here are some key commands; in all cases, the default server address is: `<lyris@lists.tapr.org>`. Other addresses are shown where appropriate. Note that commands may be placed in either the subject line or in the body of the message:

SUBSCRIBING:

subscribe aprsspec your_name
join aprsspec your_name
alternate address: join-aprsspec@lists.tapr.org

UNSUBSCRIBING:

unsubscribe aprsepec
leave aprsspec
alternate address: leave-aprsspec@lists.tapr.org

SETTING MEMBERSHIP TO DIGEST MODE:

set aprsspec digest

SETTING MEMBERSHIP TO INDEX MODE:

set aprsspec index

SETTING MEMBERSHIP TO DISCUSSION MODE:

set aprsspec mail

TEMPORARILY SUSPENDING MAIL FROM THE LIST:

set aprsspec nomail

RESUMING MAIL FROM THE LIST:

(command depends on your preferred mode)

set aprsspec mail
set aprsspec digest
set aprsspec index

ACKNOWLEDGMENT:

set aprsspec ack
(sends you a confirmation message when your posts are sent)
set aprsspec noack
(no confirmation message when posts are distributed)

RECEIVING COPIES OF YOUR OWN POSTS:

set aprsspec repro
(receive copies of your own posts)
set aprsspec norepro
(do not receive copies of your own posts)

SETTING YOUR PASSWORD:

set aprsspec pw=mypassword
(where "mypassword" is the password you wish to set)

DETERMINING YOUR MEMBERSHIP SETTINGS:

query aprsspec

RETRIEVING THE CURRENT VERSION OF THIS DOCUMENT:

get aprsspec hello

MORE INFORMATION ON LYRIS'S COMMANDS:

help

POSTING TO THE LIST:

You must be a subscriber to post messages. Sending mail to this address will distribute it to all the members of the mailing list: aprsspec@lists.tapr.org

3. CHANGING YOUR SETTINGS/ADDRESS VIA THE WEB INTERFACE: To do this, go to <http://www.tapr.org/cgi-bin/lyris.pl> and click the link in the "Change Your Settings" section. You'll need to enter your e-mail address and password (if you chose one) to continue.

(If you've forgotten your password, you can type in your e-mail address in the field at the bottom of the page and click "Get password" to request Lyris to e-mail your password to you.)

At the following page, you can read messages, post a message, adjust your settings, or unsubscribe. From the settings page, you can change your status (MAIL, DIGEST, INDEX, or NOMAIL), choose whether or not to see your own messages, and choose whether or not you want to receive a separate acknowledgement via e-mail when one of your messages is posted to the list. You can also change your e-mail address if you need to. When you change your settings, make sure you click the "Save" button at the bottom of the page.

4. ARCHIVES: The aprsspec SIG archives are available on the Web, at the following URL: <http://www.tapr.org/sigf.html>
5. BOUNCED MAIL: One of the key features of Lyris is its ability to handle mail bounces transparently to the list owner; as such, bounced mail will be handled primarily by the Lyris list server.
6. POSTS/REPLIES FROM DIGEST USERS: You *must* change the Subject: line when replying to a digest; all posts with "aprsspec DIGEST" in the Subject: line will be rejected by the server (you will receive a "rejection letter" when this happens).

APRS(r) is registered to Bob Bruninga, WB4APR.

From ???@??? Mon Oct 04 16:33:54 1999
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.11) with SMTP id TAA29443
for <wd5ivd@tapir.org>; Sun, 3 Oct 1999 19:28:49 -0500 (CDT)
Date: Sun, 3 Oct 1999 20:28:37 -0400 (EDT)
From: Keith Sproul <ksproul@hardees.Rutgers.EDU>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] APRS Spec Comments
Message-ID: <LYR11594-43057-1999.10.03-19.40.14--wd5ivd#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
X-Message-Id: <Pine.GS0.4.02A.9910032023200.9151-100000@hardees.rutgers.edu>
Sender: bounce-aprsspec-11594@lists.tapir.org
Precedence: bulk
Status: RO

I have made several replies/comments to the APRSSpec sig, but they have not been transmitted yet because of a change in my network connection. I don't want to retype them and my email should be back up tomorrow (Monday) so I am going to wait and let them be transmitted tomorrow night.

Overall, I am quite pleased with the nature and types of comments that have been posted. Several things were just oversites (mostly on my part) and a several were clarifications that made lots of sense..

This is all good and exactly what we were looking/hoping for..

The end result will be a good solid document to work from..

This is going better and smother than I was afraid it might, so I am quite pleased with the process..

As to what my network change is, MY T1 is -FINALLY-!!! up and running!!!! I have to wait for my DNS names to catch up with the new network numbers before our anti-spam system will allow my email from my home account to go out..

Keith Sproul

--

Keith Sproul	Ham Radio: WU2Z
Student Housing Network Coordinator	732 445-3695 Work 732 445-2968 Fax
Rutgers University Computing Services	732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/	mailto://ksproul@noc.rutgers.edu

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:52 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA25234
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 16:58:02 -0500 (CDT)
Message-ID: <LYR11594-43033-1999.10.03-17.09.27--wd5ivd#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Clarification: "=" Fixed position with messaging capability
Date: Sun, 3 Oct 1999 14:58:45 -0700
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <005e01bf0dea\$91376be0\$0c1b1b3f@laptop233>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: R0

Page 6:

Position packet types shows "@", "/" and "!". "=" is Fixed with computer,
and is not directly specified.

Brent KH2Z

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:51 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA23236
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 15:50:58 -0500 (CDT)
Message-ID: <LYR11594-43022-1999.10.03-16.02.24--wd5ivd#tapr.org@lists.tapr.org>
Date: Sun, 03 Oct 1999 16:51:03 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Clarification: Intended Audience of APRS protocol reference?]
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <37F7C1B7.5D5AD5BC@aerodata.net>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: RO

RE: APRS Protocol Reference version 1.0, draft

Who is the intended audience of the release version of this document?
Will it be only for existing APRS authors or as a guide for those that
may wish to write new APRS applications, be they display or tracking
units?

With regards to reviewing the document, this DOES make a difference.

Thanks

Jeff

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:01 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id GAA03176
for <wd5ivd@tappr.org>; Mon, 4 Oct 1999 06:47:46 -0500 (CDT)
Message-ID: <LYR11594-43174-1999.10.04-06.59.13--wd5ivd#tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Comment: Units
Date: Mon, 4 Oct 1999 11:42:50 -0000
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <000701bf0e5d\$ab6f2ac0\$6b984d0c@oemcomputer>
Sender: bounce-aprsspec-11594@lists.tappr.org
Precedence: bulk
Status: R0

I was expecting some very basic definitions from the protocol which are not present-

Units should be defined..

(A moving object's speed should epressed in knots for example).

No where is there a mention of "... " meaning "missing or not parsed"

Is North 000 or 360 for a vector?

What is the maximum length of an on-the-air packet?

What is the end of line designator? (LF/CR or what)

I state again - all times should be in Zulu.

73 de kg5qd Dale

You are currently subscribed to aprsspec as: wd5ivd@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 04 16:33:56 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id VAA03197
for <wd5ivd@tappr.org>; Sun, 3 Oct 1999 21:39:32 -0500 (CDT)

From: "Darryl Smith" <vk2tds@ozemail.com.au>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Date: Mon, 4 Oct 1999 12:40:58 +1000
Subject: [aprsspec] Comments on the Spec
Message-ID: <LYR11594-43093-1999.10.03-21.50.56--wd5ivd#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000401bf0e11\$f1a1aa00\$7708882c@helen.vk2tds.ampr.org>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: R0

G'Day

One thing that I noticed was missing was DGPS being a legal destination. Given that DGPS also sent through UI, can we have it added to the list acceptable destinations. If there is a reason for it not being there, maybe include a footnote indicating why.

Also it would be good to include some information in this document on the MIC-E protocol.

The last page - The table... Is FANTASTIC!!!!

Overall good work. I will have a look at it some more this long weekend...

Darryl VK2TDS

Now to a comment by Hamish Moffatt VK3SB on the OzAPRS mailing list

This is a definite improvement on the documentation available to date. I think there is some clumsy wording and minor errors (eg the protocol is AX.25, not AX-25, datagram is one word, not data-gram or "data gram") which will lessen its impact.

I think the special T0 callsigns system (APmxxx, m is manufacturer code) is a poor way to encode manufacturer information. Frankly I don't see the need to publish the manufacturer and version number at all, but

especially not in the destination callsign. I would prefer that the destination callsign was a standard "APRS". I don't know what country has the "AP" prefix but I imagine they would have a pretty entertaining time using APRS there!

The spec says that MIC-E packages must be decoded by everyone, but fails to give any details or a reference to the MIC-E specification.

There's not a lot of rationale given in the document. I think this is important in any standard or policy document. For example it says that standalone trackers transmit to GPSxyz, where xyz is the icon. Two questions -- firstly, aren't icons a single character, not 3? and secondly, why the special callsign? My portable station is perfectly capable of sending to "APRS" like any other.

Unfortunately this is an attempt to document current practice; ideally all this could have been defined up front. IMHO there are far too many ways to report your position, which would make writing receiving software difficult to say the least. You have to parse grid squares, a lot of different POSIT formats, and then NMEA-0183 (GPS) sentences. I was pleasantly surprised to find that even javAPRS handles all these.

I suggest deprecating all destination callsigns except APRS (or perhaps all the AP* codes) immediately. It is too confusing and IMHO unnecessary to accept GPS*, SPC*, SYM*, a huge list of others, etc.

I am happy for this message to be forwarded around to anyone interested. Hope it is of some use.

73,

Hamish VK3SB

--

Hamish Moffatt Mobile: +61 412 011 176 hamish@rising.com.au
Rising Software Australia Pty. Ltd. <http://www.risingsoftware.com/>
Phone: +61 3 9894 4788 Fax: +61 3 9894 3362 USA: 1 888 667
7839-----

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:52 1999
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id RAA25507
for <wd5ivd@tappr.org>; Sun, 3 Oct 1999 17:04:42 -0500 (CDT)
Message-ID: <LYR11594-43036-1999.10.03-17.16.09--wd5ivd#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Correction: Compressed format
Date: Sun, 3 Oct 1999 15:05:39 -0700
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>
List-Software: Lyras Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <006301bf0deb\$7faec8e0\$0c1b1b3f@laptop233>
Sender: bounce-aprsspec-11594@lists.tappr.org
Precedence: bulk
Status: R0

Page 6:

The inclusion of compress format in the paragraph on packet types is confusing. Compressed format is part of one of the other packet types:

>From Page 6.
...!DDMM.hhN/DDDMM.hhW\$... Fixed format (digipeaters) no APRS
=DDMM.hhN/DDDMM.hhW\$... Fixed but is APRS message capable
/DDHHMMzDDMM.hhN/DDDMM.hhW\$... Stationary, time of last fix
@DDHHMMzDDMM.hhN/DDDMM.hhW\$CSE/SPD/... Moving (with APRS)
@DDHHMMzDDMM.hhN/DDDMM.hhW\CSE/SPD/BRG/NRQ/.... DF report
[XXnnyy].... Grid Square
[XXnn]... Grid Square
/YYYYXXX\$csT Compressed format which can be used
in place of LAT/LONG/cse/spd in all
formats. /\$ are the ICON bytes and T
is a TYPE byte. See YYYYNNNN.txt

This seems to imply that a compressed packet is /YYYYXXX\$csT. But it is really part of one of posits types.

Normal: =DDMM.mmN/DDDMM.mmW\$PHGxxxx.... (also works for !)
Comprssd: =/YYYYXXXX\$csT...

Normal: @121234zDDHHMMzDDMM.mmN/DDDMM.mmW\$CSE/SPD...
Comprssd: @121234z/YYYYXXXX\$csT... (also works for /)

Brent Hildebrand, KH2Z

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:15 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA22188
 for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 15:58:54 -0500 (CDT)
Message-ID: <LYR11594-43265-1999.10.04-16.10.21--wd5ivd#tapr.org@lists.tapr.org>
Date: Mon, 4 Oct 1999 21:57:56 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <ian@dowrmain.demon.co.uk>
Reply-To: Ian Wade <ianwade@netro.co.uk>
Subject: [aprsspec] FUNDAMENTAL: What does APRS stand for?
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3qUR6SAUTR+3EwgV@dowrmain.demon.co.uk>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status:

First, congratulations to everyone concerned in getting all of this
information into one place. It's a very useful starting point.

I'm compiling a number of detailed comments, but right now I have just
one fundamental comment:

The initials "APRS" have variously been described in different documents
to mean:

- #1: "Automatic *Position* Reporting System" or
- #2: "Automatic *Packet* Reporting System"

The spec we're discussing presently calls it #1.

I submit that as APRS is capable of reporting *much* more than just positions, we rename the spec to #2; i.e APRS is a PACKET reporting system.

Irrespective of the original/current meanings adopted by various people, I feel this is now the ideal opportunity to give APRS the credit it deserves for the very wide range of uses it has. Calling it just a "position" reporting system is not relevant any more and doesn't do it justice.

My 0.02c

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:44 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA08521

for <wd5ivd@tapr.org>; Sat, 2 Oct 1999 20:32:35 -0500 (CDT)

Message-ID: <LYR11594-42861-1999.10.02-20.43.59--wd5ivd#tapr.org@lists.tapr.org>

Date: Sat, 02 Oct 1999 21:33:05 -0400

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Intended Audience of APRS protocol reference?

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <37F6B251.75F7C512@aerodata.net>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: R0

RE: APRS Protocol Reference version 1.0, draft

Who is the intended audience of the release version of this document?
Will it be only for existing APRS authors or as a guide for those that
may wish to write new APRS applications, be they display or tracking
units?

Thanks

Jeff

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:47 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id GAA07729
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 06:28:07 -0500 (CDT)
Message-ID: <LYR11594-42955-1999.10.03-06.39.33--wd5ivd#tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Local Time
Date: Sun, 3 Oct 1999 11:23:03 -0000
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-Mimeole: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000d01bf0d91\$be80e300\$a7984d0c@oemcomputer>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: R0

Hi All- can anyone explain the use of "local time" in aprs. I cannot think of a use that does not cause problems outside of a very limited geographical area. Shouldn't all times be in zulu?

73 de kg5qd Dale

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:44 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA09802
for <wd5ivd@tapr.org>; Sat, 2 Oct 1999 21:07:17 -0500 (CDT)
Message-ID: <LYR11594-42867-1999.10.02-21.18.27--wd5ivd#tapr.org@lists.tapr.org>
Date: Sat, 02 Oct 1999 22:07:26 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Minor omission- Page 3
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <37F6BA5E.EA902634@aerodata.net>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: R0

At the top of page 3, under Reserved DESTINATIONS, nothing exists for XASTIR, a released Linux based APRS display application written by Frank Giannandrea. (I am assuming the X-APRS designator was for the Sproul's Linux application, currently in Beta).

-Jeff

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:47 1999
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id CAA23994
for <wd5ivd@tappr.org>; Sun, 3 Oct 1999 02:04:38 -0500 (CDT)
Message-Id: <LYR11594-42943-1999.10.03-02.16.00--wd5ivd#tappr.org@lists.tappr.org>
X-Sender: halehome@mail
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 03 Oct 1999 03:05:52 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Darrell Hale <halehome@home.com>
Subject: [aprsspec] Mostly Formatting/Clarification comments to Spec. Document
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <2.2.32.19991003070552.009c5d44@mail>
Sender: bounce-aprsspec-11594@lists.tappr.org
Precedence: bulk
Status: RO

I just finished reviewing the Draft 1.0 Specification. I also just joined the discussion list tonight, so some of this may be repeating earlier comments I have not seen.

Here are some suggestions to help make the document more readable based on previous experience I have had with similar documents:

1) Examples on pages 4 and 5 can be changed to eliminate possible confusion:

CURRENT:

121234/ is local time 1234 on the 12th
121234z is zulu time 1234 on the 12th
WIDE:>121234zStatus

REVISION:

271234/ is local time 1234 on the 27th
271234z is zulu time 1234 on the 27th
WIDE:>271234zStatus

This eliminates the double use of "12" in two different field definitions.

2) On page 6, Position Report:

Add the = symbol to the list of position reports.

Move the indented @ lines from the list of types to the next grouping of lines, or better yet make them into a third grouping of examples.

Correct (if required) the "Stationary" label to "Moving" for the line 3
"/DDMM" reference.

CURRENT:

```
! Stationary Posit or Ultimeater 2000
/ Moving Position report
@ Moving Position report with time
  @280817/3610.19N/08414.99W-ccc/sss
  @151909z/4011.58N/07942.35Wv000/000/-300-<132>

...!DDMM.hhN/DDDMM.hhW$... Fixed format (digipeaters) no APRS
=DDMM.hhN/DDDMM.hhW$... Fixed but is APRS message capable
/DDHHMMzDDMM.hhN/DDDMM.hhW$... Stationary, time of last fix
@DDHHMMzDDMM.hhN/DDDMM.hhW$CSE/SPD/... Moving (with APRS)
@DDHHMMzDDMM.hhN/DDDMM.hhW\CSE/SPD/BRG/NRQ/.... DF report
[XXnnyy].... Grid Square
[XXnn]... Grid Square
/YYYYXXXX$csT Compressed format which can be used
```

REVISION:

```
! Stationary Posit or Ultimeater 2000
= Posit (APRS Capable)
/ Moving Position report
@ Moving Position report with time

...!DDMM.hhN/DDDMM.hhW$... Fixed format (digipeaters) no APRS
=DDMM.hhN/DDDMM.hhW$... Fixed but is APRS message capable
/DDHHMMzDDMM.hhN/DDDMM.hhW$... Moving, time of last fix
@DDHHMMzDDMM.hhN/DDDMM.hhW$CSE/SPD/... Moving (with APRS)
@DDHHMMzDDMM.hhN/DDDMM.hhW\CSE/SPD/BRG/NRQ/.... DF report
[XXnnyy].... Grid Square
[XXnn]... Grid Square
/YYYYXXXX$csT Compressed format which can be used
```

Examples:

```
@280817/3610.19N/08414.99W-ccc/sss    ... Give Explanation
```

@151909z/4011.58N/07942.35Wv000/000/-300-<132> ... Give Explanation
 /271234z3507.46N/07543.62W\$... Give Explanation

3) Page 6, Position Report: better define what !FIXED format is.

I assume that it is saying that the data format following the ! is "fixed" in the usual !DDMM.... format, but it is allowed to start anywhere within the first 40 characters of the data message. I assume it is not a FIXED position report (ie: non-moving).

4) On page 6 under COURSE/SPEED:

Include ranges and units of the data fields. I am guessing here, but CSE is in degrees over the range of 000 to 359, and that SPD is in Miles/Hour over the range of 000 to 999?

Note that the values of a, b, c, d, and x for PHG and DFS are defined in the next section.

Include an example of each. For example 270/055 would be due west at 55 MPH, and PHG1234 is 1 watt, 40 feet, 3 dB, and 180 directivity.

5) Page 7, POWER-HEIGHT-GAIN string definition:

Standardize the explaintion field, plus describe the value of the specific references (essentially making the definition an example at the same time).

CURRENT:

```
!DDMM.mmN/DDMM.mmW#PHG5360/WIDE...(identifying comments)...
|          |          | | | | | | |_____ makes station show up green
|          |          | | | | | | |_____ Omni (Direction of max gain)
|          |          | | | | | | |_____ Ant gain in dB
|          |          | | | | | | |_____ Height = log2(HAAT/10)
LAT        LONG      | | | | | | |_____ Power = SQR(P)
|          |          | | | | | | |_____ Power-Height-Gain identifier *
|          |          | | | | | | |_____ # is symbol for digipeater
```

REVISED:

```
!DDMM.mmN/DDMM.mmW#PHG5360/WIDE...(identifying comments)...
|          |          | | | | | | |_____ Makes station show up green
|          |          | | | | | | |_____ Direction of max gain      (Omni)
```

			Ant gain in dB	(6 dB)
			Height = $\log_2(\text{HAAT}/10)$	(80 feet)
LAT	LONG		Power = $\text{SQR}(P)$	(25 Watts)
			PHG = Power-Height-Gain identifier	
			# = symbol for digipeater	

6) Page 7, POWER-HEIGHT-GAIN table:

Add the label "Units" to the appropriate column.

CURRENT:

DIGITS 0 9 Equation

REVISED:

DIGITS 0 9 Units Equation

7) Page 7, HAAT definition:

Although ASCII characters above 0-9 can be used, their values are not defined. Add some examples to clarify, such as:

0 = 10 feet
 9 = 5120 feet
 : = ??? feet
 A = ??? feet

Maybe it's too late, but I cannot figure out how to mathematically calculate this progression using $\text{LOG}_2(H/10)$. However, it appears to simply be a doubling progression vice a log function. If so, then the table above would be:

0 = 10 feet
 9 = 5,120 feet
 : = 10,240 feet
 A = 1,310,720 feet

Is this a doubling function, or a log function? Are different people calculating their heights in different ways?

8) Page 7, Height value calculation:

It is stated that

$H = \text{ASCII}(\text{Hchar}) - 51$ converts it to a decimal value

will produce the numeric value of the height character. If the numeral 0 is ASCII 48, then to correctly calculate this number shouldn't the formula be:

$H = \text{ASCII}(\text{Hchar}) - 48$ converts it to a decimal value

or, $H = \text{ASCII}(0) - 48 = 48 - 48 = 0$
and, $H = \text{ASCII}(5) - 48 = 53 - 48 = 5$

9) Page 9 states that

"The call of the station sending the object should be attached to the object"
and "All receiving software must attach to the object the call of the sending station".

How is this done?

10) Page 9, indicating spaces:

In the OBJECTS definition, there are supposed to be a fixed 9 character object name. The format is then shown as:

`;OBJECT___*DDHHMMzDDMM.....`

For this examples (as well as others) the _ character is difficult to count as an individual character. Something like the following would probably better reinforce the character count:

`;OBJECTnam*DDHHMMzDDMM.....`
or `;OBJECTsss*DDHHMMzDDMM.....`

Where s is noted to indicate a space (either immediately following the definition, or as a general definition listed earlier in the document).

Other examples:

`:W3XYZ___:one line message text.....{345 (the {345 is the line#)`

becomes

`:W3XYZssss:one line message text.....{345 (the {345 is the line#)`
(where s = a space)

11) Page 11, ACK Message:

Standardise the case of the ACK in the discussion (Capitalizing it for effect could be mis-interpreted since the lower-case note is stated elsewhere, and therefore may not have been read or forgotten. Otherwise, reinforce the reminder.

CURRENT:

An ACK is just a message with the letters ACK# where the # is the message line number (following the { character at the end of the line).

REVISION 1:

An ACKnowledge is just a message _PROCEEDED_ with the letters ack# where the # is the message line number (following the { character at the end of the line).

or REVISION 2:

An ACK is just a message _PROCEEDED_ with the letters ACK# ("ack" in lower case) where the # is the message line number (following the { character at the end of the line).

12) And to echo the sentiment

>On page 6, at the bottom of the segment "Position Report"
>the referenced file, YYYYNNNN.txt (the compressed format as
>used on APRSdos, the Kenwood HT and APRSDIGI) is not included.

Although this reference probably stands on it's own merits, this and any other referenced documents (such as the NMEA-0183 reference) could be included on the web page along with the specification so that they may be more easily referenced.

Thank You,

Darrell Hale, N3KTP

You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:45 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id XAA13080
for <wd5ivd@tapr.org>; Sat, 2 Oct 1999 23:07:16 -0500 (CDT)
Message-ID: <LYR11594-42891-1999.10.02-23.18.31--wd5ivd#tapr.org@lists.tapr.org>
Date: Sun, 03 Oct 1999 00:07:00 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Omission - MIM telemetry
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <37F6D664.3B4F945E@aerodata.net>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status: RO

The MIM telemetry definition was omitted. Also, its not clear
to me if MIM status and POSITS are the same as standard
APRS, if different they need to be defined. I have attached all
I have on the telemetry mode (from Bob).

TELEMETRY.TXT APRS TELEMETRY SYSTEM

=====

Document version: 8.3.8
Document dated: 27 Mar 99
Author(s): Bob Bruninga, WB4APR <bruninga@nadn.navy.mil>
ABSTRACT
TELEMETRY.TXT: Using the Micro Interface Module (MIM) for APRS telemetry.
 The MIM module is a complete telemetry TNC on a chip.

~~~~~

See Mic-E.txt      for how the MIM chip is used in the APRS Mic-Encoder  
See Mic-Lite.txt for how to make the MIM into a simple Mic-E

The MIM module is a complete telemetry TNC transmitter on a chip. It has  
a serial data port, 5 analog and 8 digital telemetry inputs. It outputs  
PTT and transmit audio AX.25 tones. The MIM was developed by Dr. Carl  
Wick, N3MIM, as a simple, light-weight, throw-away module for experimental  
balloons. WB4APR modified it for Mic-E operation and Dr. Will Clement  
refined it into a commercial product. It is now sold by APRS Engineering

LLC at the address below. The only external components besides the sensors themselves, are a transmitter and optional GPS and battery.

EXTENDED LIFE: For extended operation (up to a year or more), the MIM can be turned on/off with an external timer between reports. A single set of AA Alkaline batteries could power the MIM and 1 watt transmitter for a YEAR at one report every 30 minutes.

| MODULE      | INPUTS         | OUTPUTS            |
|-------------|----------------|--------------------|
|             | -----          |                    |
| Analog 1    | --0            | 0--> PTT to XMTR   |
| Analog 2    | --0            | 0--> Audio to XMTR |
| Analog 3    | --0            | 0                  |
| Analog 4    | --0  M.I.M     | 0<-- Rcvr Audio    |
| Analog 5    | --0            | 0<-- GPS NMEA data |
| Input bit 1 | --0  Telemetry | 0                  |
| input bit 2 | --0            | 0                  |
| input bit 3 | --0  Module    | 0                  |
| input bit 4 | --0            | 0                  |
| input bit 5 | --0            | 0                  |
| input bit 6 | --0            | 0                  |
| input bit 7 | --0            | 0                  |
| input bit 8 | --0            | 0                  |
|             | -----          |                    |

MIM PACKETS: The mim can operate in either MIM mode or MIC mode. Here are the packets in each mode:

|           |          |                                          |
|-----------|----------|------------------------------------------|
| MIM MODE: | STATUS   | packet transmitted every N seconds       |
|           | POSIT    | packet transmitted every P seconds       |
|           | TELMETRY | packet transmitted every T seconds       |
|           | CWID     | transmitted every C seconds              |
| Mic MODE: | POSIT    | packet every P seconds                   |
|           | STATUS   | text appended to posit every P/S seconds |
|           | TELM     | telemetry appended every P/T seconds     |

MIM TELEMETRY: Each telemetry value is a decimal number between 000 and 255. The user can adjust his sensors to meaningful values, or the telemetry equations can be modified on receipt. The on-air packet telemetry format is as follows:

T#sss,111,222,333,444,555,xxxxxxx where sss is the serial number followed by the five 3 digit analog values and the eight binary values.

BATTERY VOLTAGE: Just a simple 10k and 2.4k resistor divider connected

to channel 1 will give you a battery voltage reading in tenths of a volt. Thus, a reading of 138 would mean 13.8 volts. For precision, you might want to replace the 2.4K resistor with a pot to tweak the reading to an exact calibration.

TEMPERATURE MEASUREMENTS: Similarly, by proper selection of 2 resistor values and 2 diode voltage drops, you can easily make one of the Digi-Key \$2 thermistors read out temperature in degrees F. For details, run the MIC-TEMP.BAS program. It draws the schematic and allows you to select the proper resistor values. It is suggested that AD-2 be used for internal temperature just for consistency with the default APRS Telemetry Display.

TELEMETRY EQUATIONS: The real beauty of the APRS telemetry system is that you are not limited to specific calibrations as used above. APRS can display any other telemetry values according to any specific quadratic telemetry equation. For the ultimate in flexibility, APRS can receive on-air packets to define the Telemetry labels, units, and equations. Thus it does not need to be programmed for each application. These parameters may be transmitted to all APRS stations live via four one-line BULLETINS. The first one defines the telemetry labels, the second defines the units, the third defines the telemetry equations, and the fourth defines the project name and digital bit definitions.

LIST-TELEMETRY. To see telemetry data in APRSdos, hit the LIST-TELEMETRY command. Hitting this command causes APRS to scan the TRAFFIC page looking for telemetry equations, and then to scan the LIST-LOG page for any TELEMETRY values. The TELEMETRY samples are saved in the normal LOG files. A sketch of the APRS telemetry display is shown below:

#### APRS TELEMETRY FOR XYZ BALLOON LAUNCH

| SER<br>NUM | TIME | Battery<br>volts | AirTemp<br>deg.F | BTemp<br>deg.F | Pres<br>Mbars | Altud<br>K ft | Camra<br>BIT | Par<br>BIT | Sun<br>BIT | 10m<br>BIT | ATV<br>BIT | 5th<br>BIT | 6th... |
|------------|------|------------------|------------------|----------------|---------------|---------------|--------------|------------|------------|------------|------------|------------|--------|
| 101        | 1215 | 12.8             | 86               | 85             | 999           | 0             | ...          | ...        | ...        | ...        | ...        | ...        | ...    |
| 104        | 1218 | 12.4             | 84               | 80             | 980           | 4000          | clik         | ...        | on         | on         | hi         | ...        | ...    |
| 105        | 1219 | 12.3             | 80               | 76             | 900           | 8000          | ...          | ...        | ...        | on         | hi         | ...        | ...    |
| 106        | 1220 | 12.1             | 75               | 70             | 850           | 16000         | ...          | ...        | on         | on         | ...        | ...        | ...    |
| 107        | 1221 | 12.0             | 70               | 65             | 800           | 32000         | clik         | ...        | ...        | ...        | ...        | ...        | ...    |
| 108        | 1222 | 12.0             | 65               | 60             | 730           | 64000         | ...          | ...        | on         | ...        | hi         | ...        | ...    |

To configure all APRS stations to properly decode the telemetry from a M.I.M module, one station transmits the proper parameter definition packets TO the CALLSIGN of the M.I.M module. For example of N3MIM's MIM:

To N3MIM:PARM.Battery,BTemp,AirTemp,Pres,Altude,Camra,Chute,Sun,10m,ATV



To N3MIM:UNIT.Volts,deg.F,deg.F,Mbar,Kfeet,Clik,OPEN!,on,on,high  
To N3MIM:EQNS.0,2.6,0,0,.53,-32,3,4.39,49,-32,3,18,1,2,3  
To N3MIM:BITS.10110101,PROJECT TITLE...

The PARM format specifies the name of each of the 13 parameters.  
The UNIT format specifies what units are to be displayed, and what label is associated with the digital condition.  
The BITS format specifies whether a 1 or 0 indicates the indicated label and also the project Title.  
The EQNS format has three coefficients for each of the five analog channels.

Final value =  $A \cdot X^2 + B \cdot X + C$  Where X is the M.I.M transmitted value

FORMAL SPECIFICATION: The specific format for the TITLE, PARM, UNIT, and EQNS message packets are shown below. They are entered as messages to the address of the MIM module:

|                                     |                                                                                                                                                     |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| PARM.P1,P2,P3,P4,P5,B1,B2,B3,etc    | Where Pn and Bn are the parameter names                                                                                                             |
| UNIT,U1,U2,U3,U4,U5,L1,L2,L3,etc    | Where Un are the units for analog ports and Ln are the labels for the bits                                                                          |
| EQNS,A1,B1,C1,A2,B2,C2,A3,B3,C3,etc | Where the An,Bn,Cn are the coefficients for each of the five analog channels,                                                                       |
| BITS.XXXXXXXX,Title-up-to-23-chars  | The x's specify the state of the bits that match the BIT Labels.                                                                                    |
| T#sss,111,222,333,444,555,xxxxxxx   | This is the on-air format for the UI packet, where sss is the serial number followed by the five 3 digit analog values and the eight binary values. |

PARAMETER NAMES: Due to the 80 character screen width in DOS, each parameter has a fixed NAME/UNITS length. The lengths for the 5 analog channels are 7, 6, 5, 5 and 4 characters. The lengths for the 8 digital bits are 5, 4, 3, 3, 3, 2, 2, and 2 characters respectively. So you may need to decide early on what channel to use for what purpose based on the number of characters available in the display...

DEFAULTS TO APRS Mic-ENCODER: Since the predominant application of the MIM module is in the APRS Mic-Encoder, the default telemetry parameters and units for the Mic-E are normally displayed. These will go away if any on-air parameters or equations are received...

#### APPLICATIONS:

- 1) Balloon payloads using only party balloons (not big ones)

- 2) Tracking wildlife or packages
- 3) Small stand-alone trackers
- 4) Model Aircraft
- 5) Keeping track of your kids.

LOW POWER TELEMETRY TRANSMITTERS: To complement this less than ONE-CUBIC inch MIM telemetry system, Agrelo Engineering in NY makes a 1.5 x 0.5 x 0.25 inch 2 meter transmitter for \$99. It outputs 500 mW at 6 volts 140 ma and 120 mW at 3 volts 50 ma. A new 800 mw model is now out! See more cheap transmitters in the GPS.TXT file.

#### ORDERING YOUR MIM:

Order the MIM from APRS Engineering LLC, 115 Old Farm Ct, Glen Burnie MD, 21060

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:44 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id WAA12401  
for <wd5ivd@tapr.org>; Sat, 2 Oct 1999 22:47:56 -0500 (CDT)  
Message-ID: <LYR11594-42887-1999.10.02-22.59.18--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 02 Oct 1999 23:48:25 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omission - Page 6, compressed format  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37F6D209.7E459AD4@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: RO

On page 6, at the bottom of the segment "Position Report"

the referenced file, YYYNNNN.txt (the compressed format as used on APRSdos, the Kenwood HT and APRSDIGI) is not included.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id WAA12699  
for <wd5ivd@tapr.org>; Sat, 2 Oct 1999 22:56:16 -0500 (CDT)  
Message-ID: <LYR11594-42889-1999.10.02-23.07.40--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 02 Oct 1999 23:56:45 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omission - Page 8  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <37F6D3FD.A36B119F@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

The MIC-E protocol is not defined sufficiently for a programmer to implement it, either on page 8 or on page 17. As the MIC-E protocol can be somewhat confusing, I would recommend adding a reference to it such as: <http://www.tapr.org/tapr/html/mic-e-proto.html>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA24759

for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 16:39:37 -0500 (CDT)  
Message-ID: <LYR11594-43026-1999.10.03-16.51.03--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 03 Oct 1999 17:39:13 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omission: Internet APRS protocol specification  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37F7CCFC.49DA00C6@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

Type of report: OMISSION:

Summary: Internet APRS protocol specification omitted

DATE: October 3, 1999

Submitted by: Jeff King wb8wka, jeff@aerodata.net

Detail of problem:

In the file Announcement2.pdf it states on Page 3, under the heading "Protocol Committee" in the first paragraph:

"The APRS Protocol Specification is the formal definition of the data elements and message formats used to communicate between APRS devices via wireless or wired (e.g., Internet) connections. It does not include user interface of other elements that do not affect the content or format of these interface components."

On Page 3, third paragraph it states:

"The Protocol Committee intends to publish Version 1.0 of the APRS Protocol Specification by the end of October 1999. The first draft of the Specification will be made available to the amateur community by the end of June 1999, and comment will be accepted as defined below"

Understand the slipped dates, however paragraph one and three clearly state the internet protocols (e.g.. APRSSERVE) are to be part of this document.

Hence, I am alerting you to there omission from the first draft.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:49 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA17372  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 12:30:58 -0500 (CDT)  
Message-Id: <LYR11594-42992-1999.10.03-12.42.21--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Protocol process  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Sun, 03 Oct 1999 13:30:43 -0400  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199910031730.NAA24589@meow.febo.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

Hi Guys --

There've been a couple of postings asking how we're going to handle comments on the protocol draft.

The automated mechanism for handling comments or request changes for the APRS protocol isn't developed yet. In the meantime, the aprsspec mailing list will have to do most of the work, with some help from me.

Here's what I intend to do, but I need to put a disclaimer out first. I'm going to be having surgery on Tuesday (Oct. 5) to remove a couple of blown-out disks in my neck, and have the associated vertebrae fused.

Doctor's orders are that for the first two to three weeks after the surgery, I'm to spend no more than 15 minutes at a time at the computer, and that only a couple of times per day (and work-related stuff has to come first). So for the next few weeks, don't expect to see much from me.

That said:

1. The public comment period for the draft 1.0 spec will continue until November 1, 1999. By November 7, 1999, the WG will publish an anticipated date for publication of the final document for APRS Protocol Specification Version 1.0.
2. Although the developers are already subscribed to the list and see all the messages, I will keep a separate archive of those messages for future reference.
3. To make my life easier, please begin the "Subject" line of any message that is intended to be a formal comment with "Comment:", "Error:", "Omission:" or something similar, so I can filter submissions from normal traffic.
4. I will maintain a simple database of submissions, including the submitter's name, date submitted, brief description, and disposition. The "disposition" will be based on the vote (or more likely consensus view) of the Working Group members, and will probably be something like "accepted", "accepted in part", "rejected", "deferred", or "further info requested" (but don't hold me to those precise terms). The disposition field may not be filled in until after the end of the comment period (in other words, not every submission is going to be acted upon immediately after it is sent, though some might be).
5. I will upload the submission database to the Working Group web page, and do my best to update it regularly. I will also post it, and updates, to the aprsspec mailing list. Given my situation, it's likely that nothing will be posted anywhere until the latter part of October. Sorry about that...

73,  
John N8UR  
APRS Working Group Administrative Chair  
jra@febo.com

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:53 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA27902  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 18:38:43 -0500 (CDT)

Date: Sun, 03 Oct 1999 18:36:58 -0500  
From: Bill Diaz <billldiaz@megsinet.net>  
Subject: [aprsspec] RE: Clarification: Compressed format  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Reply-to: "billldiaz@megsinet.net" <billldiaz@megsinet.net>  
Message-id: <LYR11594-43051-1999.10.03-18.50.07--wd5ivd#tappr.org@lists.tappr.org>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"  
Content-transfer-encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <01BF0DCE.4A927700.billldiaz@megsinet.net>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status: RO

Brent,

The information presented on this subject to date does nothing to clarify how the compression formatted message can be encoded and decoded.  
Can you provide more info?

Bill KC9XG

-----Original Message-----

From: Brent Hildebrand [SMTP:bhildebrand@earthlink.net]  
Sent: Sunday, October 03, 1999 5:06 PM  
To: APRS Spec Discussion List  
Subject: [aprsspec] Correction: Compressed format

Page 6:

The inclusion of compress format in the paragraph on packet types is confusing. Compressed format is part of one of the other packet types:

>From Page 6.

...!DDMM.hhN/DDDMM.hhW\$... Fixed format (digipeaters) no APRS  
=DDMM.hhN/DDDMM.hhW\$... Fixed but is APRS message capable  
/DDHHMMzDDMM.hhN/DDDMM.hhW\$... Stationary, time of last fix  
@DDHHMMzDDMM.hhN/DDDMM.hhW\$CSE/SPD/... Moving (with APRS)  
@DDHHMMzDDMM.hhN/DDDMM.hhW\CSE/SPD/BRG/NRQ/.... DF report  
[XXnnyy].... Grid Square  
[XXnn]... Grid Square  
/YYYYXXXX\$csT Compressed format which can be used

in place of LAT/LONG/cse/spd in all  
formats. /\$ are the ICON bytes and T  
is a TYPE byte. See YYYYNNNN.txt

This seems to imply that a compressed packet is /YYYYXXX\$csT. But it is  
really part of one of posits types.

Normal: =DDMM.mmN/DDMM.mmW\$PHGxxxx.... (also works for !)  
Comprssd: =/YYYYXXX\$csT...

Normal: @121234zDDHHMMzDDMM.mmN/DDMM.mmW\$CSE/SPD...  
Comprssd: @121234z/YYYYXXX\$csT... (also works for /)

Brent Hildebrand, KH2Z

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id TAA29261  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 19:22:23 -0500 (CDT)  
Message-ID: <LYR11594-43056-1999.10.03-19.33.46--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 03 Oct 1999 20:21:45 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] RE: Clarification: Compressed format  
References: <LYR11601-43051-1999.10.03-18.50.07--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37F7F318.2C4EABA4@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk



Status: R0

Bill:

The reason you and Brett are having such trouble with this, is the document describing the compressed format is missing. This would be the yyyxxxxx.txt document that is referenced, also referred to as the compressed format.

I've never seen it on any official APRS site or on the TAPR site. I have however seen in on the ARPP file list area. See:

[http://www.onelist.com/files/arpp/rough\\_APRS\\_protocol/compressed\\_format.txt](http://www.onelist.com/files/arpp/rough_APRS_protocol/compressed_format.txt)

Note I have no idea if this is it..... this should still be treated as an omission until someone from the WG provides the file as they are the only definitive source.

73

Jeff

Bill Diaz wrote:

> Brent,  
>  
> The information presented on this subject to date does nothing to clarify how  
> the compression formatted message can be encoded and decoded.  
> Can you provide more info?  
>  
> Bill KC9XG  
>  
> -----Original Message-----  
> From: Brent Hildebrand [SMTP:bhildebrand@earthlink.net]  
> Sent: Sunday, October 03, 1999 5:06 PM  
> To: APRS Spec Discussion List  
> Subject: [aprsspec] Correction: Compressed format  
>  
> Page 6:  
>  
> The inclusion of compress format in the paragraph on packet types is  
> confusing. Compressed format is part of one of the other packet types:  
>  
> >From Page 6.  
> ...!DDMM.hhN/DDDMM.hhW\$... Fixed format (digipeaters) no APRS  
> =DDMM.hhN/DDDMM.hhW\$... Fixed but is APRS message capable  
> /DDHHMMzDDMM.hhN/DDDMM.hhW\$... Stationary, time of last fix  
> @DDHHMMzDDMM.hhN/DDDMM.hhW\$CSE/SPD/... Moving (with APRS)  
> @DDHHMMzDDMM.hhN/DDDMM.hhW\CSE/SPD/BRG/NRQ/.... DF report

```

> [XXnnyy].... Grid Square
> [XXnn]... Grid Square
> /YYYYXXXX$csT Compressed format which can be used
>                                     in place of LAT/LONG/cse/spd in all
>                                     formats. /$ are the ICON bytes and T
>                                     is a TYPE byte. See YYYYNNNN.txt
>
> This seems to imply that a compressed packet is /YYYYXXXX$csT. But it is
> really part of one of posits types.
>
> Normal:   =DDMM.mmN/DDMM.mmW$PHGxxxx....      (also works for !)
> Comprssd: =/YYYYXXXX$csT...
>
> Normal:   @121234zDDHHMMzDDMM.mmN/DDMM.mmW$CSE/SPD...
> Comprssd: @121234z/YYYYXXXX$csT...           (also works for /)
>
> Brent Hildebrand, KH2Z
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

```

```

---
You are currently subscribed to aprsspec as: wd5ivd@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

```

```

From ???@??? Mon Oct 04 16:34:16 1999
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
        by tappr.org (8.9.3/8.9.3/1.11) with SMTP id QAA23025
        for <wd5ivd@tappr.org>; Mon, 4 Oct 1999 16:22:33 -0500 (CDT)
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs
Date: Mon, 4 Oct 1999 17:21:58 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?
In-Reply-To: <LYR11586-43265-1999.10.04-16.10.21--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11594-43272-1999.10.04-16.33.50--wd5ivd#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

```

X-Message-Id: <Pine.GS0.4.05L.9910041720160.24017-1000000@arctic>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I think I'm ready to go back to the "PACKET" name. I changed it to POSITION when GPS became so popular, but it really was "PACKET" in the early days.

So I say YES. PACKET.

de WB4APR, Bob

On Mon, 4 Oct 1999, Ian Wade wrote:

> First, congratulations to everyone concerned in getting all of this  
> information into one place. It's a very useful starting point.  
>  
> I'm compiling a number of detailed comments, but right now I have just  
> one fundamental comment:  
>  
> The initials "APRS" have variously been described in different documents  
> to mean:  
>  
> #1: "Automatic \*Position\* Reporting System" or  
> #2: "Automatic \*Packet\* Reporting System"  
>  
> The spec we're discussing presently calls it #1.  
>  
> I submit that as APRS is capable of reporting \*much\* more than just  
> positions, we rename the spec to #2; i.e APRS is a PACKET reporting  
> system.  
>  
> Irrespective of the original/current meanings adopted by various people,  
> I feel this is now the ideal opportunity to give APRS the credit it  
> deserves for the very wide range of uses it has. Calling it just a  
> "position" reporting system is not relevant any more and doesn't do it  
> justice.  
>  
> My 0.02c  
>  
> 73  
> Ian, G3NRW  
> --  
> +-----+  
> | Editor: RSGB's RadCom "Data" column. |

```
> |      email: g3nrw@arrl.net |
> |      AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
> | |
> | INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
> | APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/aprswg.html |
> +-----+
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org
>
>
```

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: http://web.usna.navy.mil/~bruninga/dayton.html  
See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html  
See GPS on ANY radio: http://www.tapr.org/tapr/html/mic-e.html

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:03 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id HAA04527  
for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 07:48:11 -0500 (CDT)  
X-Authentication-Warning: arctic.nadm.navy.mil: bruninga owned process doing -bs  
Date: Mon, 4 Oct 1999 08:47:57 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
In-Reply-To: <LYR11586-42955-1999.10.03-06.39.33--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11594-43179-1999.10.04-07.59.34--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9910040835250.23992-100000@arctic>

Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: 0

> Hi All- can anyone explain the use of "local time" in aprs. I cannot  
> think of a use that does not cause problems outside of a very limited  
> geographical area. Shouldn't all times be in zulu?

APRS was designed for tactical-real-time support for emergency and special event operations... ususally local. The fact that we use it 99.9% of the time for wide area general ham radio, 24 hours a day is just its "standby" mode to keep us all trained and familiar with its operation.

During the protocol discussions to follow, I hope we dont lose sight of the fundamental local/real-time urgent (but very rare) design objectives.

We frequently use paths of 4 hops or more just to make sure there is enough activity in most areas to make APRS interesting most of the time. But as emergencies and special events occur, the first thing to do, is cut back to the area of need. APRS can support about 100 users. During benign conditions, this may take one or two states to see that many users. But during an emergency or local event, as more and more stations participate, then the paths will have to be shorter to avoid overload...

de WB4APR, Bob

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA04798  
for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 08:04:05 -0500 (CDT)  
Message-ID: <LYR11594-43180-1999.10.04-08.15.31--wd5ivd#tapr.org@lists.tapr.org>  
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
Date: Mon, 4 Oct 1999 09:06:22 -0400  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <BF01BF9F0651D311B7A100104B716B901D1C33@SHPMAIL>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: 0

Pardon my ignorance if this is addressed already.... not meant to  
flame or place any other comments in a poor light...

Given emergencies aren't likely to make an effort to impact only one  
time zone... and given this is something the military has had extensive  
experience in.... I suggest that APRS either adhere to ZULU... or if  
local time is a necessity... that a field be defined with a single character  
that refers to the local time zone...

Confusion will reign if either we aren't all on the same time standard..  
or that we don't explicitly state our time reference... history proves  
this over and over and over...

TNX  
AH6LS

> > Hi All- can anyone explain the use of "local time" in aprs. I cannot  
> > think of a use that does not cause problems outside of a very limited  
> > geographical area. Shouldn't all times be in zulu?  
>  
> APRS was designed for tactical-real-time support for emergency and special  
> event operations... ususally local.  
    snip  
> During the protocol discussions to follow, I hope we dont lose sight of  
> the fundamental local/real-time urgent (but very rare) design objectives.  
>  
>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
    by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA05387  
    for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 08:17:54 -0500 (CDT)  
Date: Mon, 4 Oct 1999 08:17:41 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43183-1999.10.04-08.29.18--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
In-Reply-To: <LYR11595-42955-1999.10.03-06.39.33--

salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910041317.IAA34494@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

> From: "Dale Huguley" <kg5qd@worldnet.att.net>  
> Subject: [aprsspec] Local Time  
> Date: Sun, 3 Oct 1999 11:23:03 -0000  
> [...]  
> Shouldn't all times be in zulu?

Given that this is amateur radio, not the military, I believe that the term "UTC" would be more appropriate for the specification. See, for example, "The ARRL Operating Manual."

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:34:05 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA06356  
for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 08:41:12 -0500 (CDT)  
Message-ID: <LYR11594-43193-1999.10.04-08.52.37--wd5ivd#tapr.org@lists.tapr.org>  
From: "Ed Palmer" <PalmerEd@email.msn.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11603-43180-1999.10.04-08.15.31--  
PalmerEd#email.msn.com@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
Date: Mon, 4 Oct 1999 08:41:58 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-Mimeole: Produced By Microsoft MimeOLE V5.00.2314.1300  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <00e001bf0e6e\$3bab80b0\$ca00470a@fwb>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: 0

From: Sadowski, Allan <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
> Given emergencies aren't likely to make an effort to impact only one  
> time zone... and given this is something the military has had extensive  
> experience in.... I suggest that APRS either adhere to ZULU... or if  
> local time is a necessity... that a field be defined with a single  
character  
> that refers to the local time zone...  
>  
> Confusion will reign if either we aren't all on the same time standard..  
> or that we don't explicitly state our time reference... history proves  
> this over and over and over...

I agree with Allan's general sentiment that UTC be used unless local is a necessity. Being close to the boundary between Central and Eastern time, I see far too much confusion possible unless "local" is properly defined.

Since, as I understand it, this document is currently defining the APRS protocol as it exists in current implementations, establishing a way of designating the local time zone needs to be deferred until post V1.0. That being said, I don't think a single character is the way to go. After all, we have a well-defined standard for time zone abbreviations which covers the world; that should be used or "confusion will reign" even more. There are already far too many "special cases" in this protocol spec, IMHO.

On a related point, the second line starting with "@" on page 6 ("@280817/3610.19N/08414.99W-ccc/sss") is missing the time zone character, and should start either "@280817Z" or "@280817/" to be correct.

--Ed

-----

Ed Palmer, KU4LY  
Navarre, FL  
[ku4ly@arrl.net](mailto:ku4ly@arrl.net)

---

You are currently subscribed to aprsspec as: [wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)



From ???@??? Mon Oct 04 16:34:06 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id IAA06769  
for <wd5ivd@tappr.org>; Mon, 4 Oct 1999 08:53:19 -0500 (CDT)  
Date: Mon, 4 Oct 1999 08:53:08 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43198-1999.10.04-09.04.45--wd5ivd#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Local Time  
In-Reply-To: <LYR11595-42955-1999.10.03-06.39.33--  
salo#networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199910041353.IAA37126@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status: R0

> From: "Dale Huguley" <kg5qd@worldnet.att.net>  
> To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
> Subject: [aprsspec] Local Time  
> Date: Sun, 3 Oct 1999 11:23:03 -0000  
>  
> Hi All- can anyone explain the use of "local time" in aprs. I cannot think  
> of a use that does not cause problems outside of a very limited  
> geographical area. Shouldn't all times be in zulu?

I believe that the \_protocol\_ should use UTC and that the use of  
or translation to local time should be left to the user interface.

I also believe that the protocol specification should indicate that  
UTC is preferred, and that the use of local time \_in the protocol\_ is  
deprecated, (specification language for: "we did this in the past, but  
we figured out that it is a bad idea; you should be able to receive  
it, but you shouldn't transmit it").

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 04 16:34:07 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id JAA08064

for <wd5ivd@tapr.org>; Mon, 4 Oct 1999 09:34:16 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 4 Oct 1999 10:33:52 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
In-Reply-To: <LYR11586-43180-1999.10.04-08.15.31--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11594-43204-1999.10.04-09.45.43--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9910041031090.23992-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Sorry, I may have confused things. The authors have all agreed that only ZULU will be used on the air. All current versions adhere to that standard.

But local display in local time is an option. So I guess you are correct, that there is no need for a "format" for local time... since we will not transmit it on the air that way...

de WB4APR, Bob

On Mon, 4 Oct 1999, Sadowski, Allan wrote:

> Pardon my ignorance if this is addressed already.... not meant to  
> flame or place any other comments in a poor light...  
>  
> Given emergencies aren't likely to make an effort to impact only one  
> time zone... and given this is something the military has had extensive  
> experience in.... I suggest that APRS either adhere to ZULU... or if  
> local time is a necessity... that a field be defined with a single character  
> that refers to the local time zone...  
>  
> Confusion will reign if either we aren't all on the same time standard..  
> or that we don't explicitly state our time reference... history proves  
> this over and over and over...  
>

> TNX  
> AH6LS  
>  
> > > Hi All- can anyone explain the use of "local time" in aprs. I cannot  
> > > think of a use that does not cause problems outside of a very limited  
> > > geographical area. Shouldn't all times be in zulu?  
> >  
> > APRS was designed for tactical-real-time support for emergency and special  
> > event operations... ususally local.  
> snip  
> > During the protocol discussions to follow, I hope we dont lose sight of  
> > the fundamental local/real-time urgent (but very rare) design objectives.  
> >  
> >  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id AAA18597  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 00:01:09 -0500 (CDT)  
From: va3drv@rac.ca  
Message-ID: <LYR11594-42929-1999.10.03-00.12.33--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 03 Oct 1999 01:00:19 -0400  
Reply-To: va3drv@rac.ca  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Minor omission- Page 3  
References: <LYR11613-42867-1999.10.02-21.18.27--va3drv#rac.ca@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37F6E2E3.259276F5@rac.ca>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

Hi All!

For that matter, I didnt see any destinations reserved for the Palm OS platform either.

73! de Marc, VA3DRV.

Jeff King wrote:

>  
> At the top of page 3, under Reserved DESTINATIONS, nothing  
> exists for XASTIR, a released Linux based APRS display application  
> written by Frank Giannandrea. (I am assuming the X-APRS designator  
> was for the Sproul's Linux application, currently in Beta).  
>  
> -Jeff  
>  
> ---  
> You are currently subscribed to aprsspec as: va3drv@rac.ca  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:46 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id AAA22359  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 00:16:00 -0500 (CDT)  
Message-Id: <LYR11594-42930-1999.10.03-00.27.24--wd5ivd#tapr.org@lists.tapr.org>  
X-Sender: cap@mail.cruzio.com  
Date: Sat, 02 Oct 1999 22:15:44 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Cap Pennell <cap@cruzio.com>  
Subject: [aprsspec] Re: Minor omission- Page 3  
In-Reply-To: <LYR11639-42929-1999.10.03-00.12.33--ke6afe#arrrl.net@lists.  
tapr.org>

References: <LYR11613-42867-1999.10.02-21.18.27--va3drv#rac.ca@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <3.0.5.32.19991002221544.00aeb100@mail.cruzio.com>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status: R0

At 01:00 AM 10/3/1999 -0400, Marc <va3drv@rac.ca> wrote:  
> For that matter, I didnt see any destinations reserved for the Palm OS  
>platform either.

Nor for the newer versions of APRSdos.  
73, Cap KE6AFE

--  
Cap Pennell  
Santa Cruz, CA 95062-1002            3658.93N/12200.91W [CM86xx]  
email: cap@cruzio.com    home page: http://members.cruzio.com/~cap  
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 04 16:33:48 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
    by tappr.org (8.9.3/8.9.3/1.11) with SMTP id IAA11432  
    for <wd5ivd@tappr.org>; Sun, 3 Oct 1999 08:48:28 -0500 (CDT)  
Date: Sun, 03 Oct 1999 08:46:43 -0500  
From: Bill Diaz <billdiaz@megsinet.net>  
Subject: [aprsspec] RE: Omission - Page 8  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Reply-to: "billdiaz@megsinet.net" <billdiaz@megsinet.net>  
Message-id: <LYR11594-42971-1999.10.03-08.59.33--wd5ivd#tappr.org@lists.tappr.org>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"  
Content-transfer-encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <01BF0D7B.D5934440.billdiaz@megsinet.net>

Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

The link provided appears to be incorrect.  
Try <http://www.tapr.org/tapr/html/Fpice.html>

Bill KC9XG

-----Original Message-----

From: Jeff King [SMTP:jeff@aerodata.net]  
Sent: Saturday, October 02, 1999 10:57 PM  
To: APRS Spec Discussion List  
Subject: [aprsspec] Omission - Page 8

The MIC-E protocol is not defined sufficiently for a programmer to implement it, either on page 8 or on page 17. As the MIC-E protocol can be somewhat confusing, I would recommend adding a reference to it such as: <http://www.tapr.org/tapr/html/mic-e-proto.html>

---

You are currently subscribed to aprsspec as: billdiaz@megsinet.net  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Mon Oct 04 16:33:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA24004  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 16:18:45 -0500 (CDT)  
Message-ID: <LYR11594-43023-1999.10.03-16.30.11--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 03 Oct 1999 17:18:47 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Protocol process  
References: <LYR11601-42992-1999.10.03-12.42.21--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37F7C82E.54F69953@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

John:

I'm sorry to hear about your pending surgery.

> In the meantime, the aprsspec  
> mailing list will have to do most of the work, with some help from me.

Maybe it is time to ask the other members of the  
WG to participate publicly, especially in light of your limited access  
in the coming weeks. It just seems like only you and Greg have spoken  
up so far on APRSSIG.

> 3. To make my life easier, please begin the "Subject" line of any  
> message that is intended to be a formal comment with "Comment:",  
> "Error:", "Omission:" or something similar, so I can filter submissions  
> from normal traffic.

Please add one more, called "Clarification:". These types are questions  
that would need to be answered before the close of the comment  
period. See my posting I just made:

Clarification needs to be made as  
to the target audience of this document.... is it:

1. Written for a programmer who is does not know APRS (which I hope is the intent).
2. Written for someone who has been exposed to it for some period of time and will have help from a APRS insider or can dig around enough on there own (reverse engineer) to figure things out (the omission of MIC-E, MIM telemetry, internet and compressed formats current puts it in this category)

In reviewing any kind of document, it is important to know ones target audience.

Thanks John and I hope your surgery goes well.

-Jeff

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:52 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id RAA26498  
for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 17:40:16 -0500 (CDT)  
Message-Id: <LYR11594-43041-1999.10.03-17.51.40--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Protocol process  
In-reply-to: Your message of "Sun, 03 Oct 1999 17:18:47 EDT."  
<37F7C82E.54F69953@aerodata.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Sun, 03 Oct 1999 18:39:58 -0400  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910032239.SAA25471@meow.febo.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: RO

> John:  
>  
> I'm sorry to hear about your pending surgery.

Thanks; it's not a huge deal, but it sure is annoying.

> Maybe it is time to ask the other members of the  
> WG to participate publicly, especially in light of your limited access  
> in the coming weeks. It just seems like only you and Greg have spoken  
> up so far on APRSSIG.

I'm not sure that's necessary, other than perhaps to discuss the point  
you make below. My role is to be the coordinator and facilitator; the  
authors are certainly encouraged to carry on discussions about the spec  
without me.

> > 3. To make my life easier, please begin the "Subject" line of any  
> > message that is intended to be a formal comment with "Comment:",



> > "Error:", "Omission:" or something similar, so I can filter submissions  
> > from normal traffic.  
>  
> Please add one more, called "Clarification:". These types are questions  
> that would need to be answered before the close of the comment  
> period. See my posting I just made:

Understand your point. I wasn't trying to be exhaustive in the list; I was just trying to get a mechanism so I can quickly separate submissions from other traffic.

> Clarification needs to be made as  
> to the target audience of this document.... is it:  
>  
> 1. Written for a programmer who is does not know APRS (which I hope is the  
> intent).  
>  
> 2. Written for someone who has been exposed to it for some period of time and  
> will have help from a APRS insider or can dig around enough on there  
> own (reverse engineer) to figure things out (the omission of  
> MIC-E, MIM telemetry, internet and compressed formats current puts it in  
> this category)  
>  
> In reviewing any kind of document, it is important to know ones target audience.

I can't answer this for the group; we never discussed it in quite this context in our meetings. But speaking for myself, I hope that the final protocol document is closer to your first option than the second.

I think, however, that in practice -- as with most protocols -- the document will only be able to take you so far, and looking at real-world implementations will fill in some details.

As to the omissions you cite, I don't think those are intentional but are the consequence of a first draft effort.

John

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 04 16:33:47 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id CAA24599

for <wd5ivd@tapr.org>; Sun, 3 Oct 1999 02:41:51 -0500 (CDT)

Message-ID: <LYR11594-42944-1999.10.03-02.53.08--wd5ivd#tapr.org@lists.tapr.org>

From: "Brent Hildebrand" <bhildebrand@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11585-42778-1999.10.02-13.01.55--  
bhildebrand#earthlink.net@lists.tapr.org> <014001bf0d21\$0f2184c0\$e992b3d1@celeron>  
<v04205513b41c3c1c18ed@[165.230.36.132]>  
Subject: [aprsspec] Re: Tactical Call Signs  
Date: Sun, 3 Oct 1999 00:41:22 -0700  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-Mimeole: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01fd01bf0d72\$b15da380\$e992b3d1@celeron>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status: R0

One clarification of the multiple TAC call message, if the first field does not contain an "=", then it is assumed to be the tactical call for the sending station. Example:

```
KH2Z>APS200,WIDE3-3::TACTICAL :Brent;WU2Z=Keith;WB4APR=Bob{0
```

Meaning:

KH2Z is Brent

WU2Z is Keith

WB4APR=Bob

Of course, the following is also valid and does the same thing:

```
KH2Z>APS200,WIDE3-3::TACTICAL :KH2Z=Brent;WU2Z=Keith;WB4APR=Bob{1
```

The prior construct is only in the most recent versions of APRS+SA. If you'd prefer to keep it simple, then maybe the following two constructs should be used:

For settings one own tactical callsign:

```
KH2Z>APS200,WIDE3-3::TACTICAL :Brent{2
```

For setting multiple tactical callsigns in one message:

```
KH2Z>APS200,WIDE3-3::TACTICAL :KH2Z=Brent;WU2Z=Keith;WB4APR=Bob{3
```

Also note, the way I implemented the transmission of tactical callsigns, is that they have line numbers, but are transmitted only once. They of course

can be retransmitted by APRS+SA by a right-click on the message, and choosing transmit. Line numbers are not probably needed, and APRS+SA ignores them on reception any ways, since stations such an APRSdos station might transmit their tactical callsign, and would have a line number. Messages to TACTICAL should never receive an ACK because there should not be a station called TACTICAL.

Brent KH2Z

----- Original Message -----

From: Keith Sproul <ksproul@vger.rutgers.edu>  
To: Brent Hildebrand <bhildebrand@earthlink.net>  
Sent: Saturday, October 02, 1999 3:48 PM  
Subject: Re: [aprsspec] Tactical Call Signs

> Brent..  
>  
> Thanks, this is exactly what I needed..  
>  
> Keith  
>  
>  
> >Tactical (Tac) callsigns are a local display option only. But for the  
> >purpose of exchanging Tac calls, APRS+SA supports several methods of  
> >transmitting Tac calls. If a station sends an APRS message to TACTICAL,  
the  
> >message text then contains that station's Tac callsign. Example:  
> >  
> >Personal Tac callsign.  
> >KH2Z>APS200,WIDE3-3::TACTICAL :Brent{1.  
> >  
> >The sending station is KH2Z, going to TACTICAL, thus, the TAC call for  
KH2Z  
> >is Brent.  
> >  
> >Multiple Tac calls, or sending the Tac call for another station, such as  
a  
> >stand-alone tracker,  
> >the characters "=" and ";" are reserved for sending multiple tactical  
> >callsigns in a single message.  
> >  
> >Example:  
> >KH2Z>APS200,WIDE3-3::TACTICAL :WU2Z=Keith;WB4APR=Bob;N5B=Balloon1{2.  
> >  
> >The ";" character separates fields. The "=" separates callsign from Tac  
> >callsign. Thus:

```

> >WU2Z has a Tac call of Keith.
> >WB4APR, Bob
> >N5B would be Balloon1.
> >
> >Note, older versions of APRS+SA used a colon to delimit fields. The above
> >example would be:
> >KH2Z>APS200,WIDE3-3::TACTICAL :WU2Z:Keith:WB4APR:Bob:N5B:Balloon1{3
> >
> >APRS+SA still supports both on receive.
> >
> >Other than reserving "=" and ";" and ":", no other limitations are
imposed
> >by APRS+SA on Tac callsigns. And in fact the reserved characters can be
> >used on the local display, but not for transmitting the Tac call over the
> >air.
> >
> >Brent KH2Z
> >
> >
> >
> >----- Original Message -----
> >From: Keith Sproul <ksproul@vger.rutgers.edu>
> >To: APRS Spec Discussion List <aprsspec@lists.tapir.org>
> >Cc: Bob Bruninga <bruninga@nadn.navy.mil>; <aprsspec@lists.tapir.org>
> >Sent: Saturday, October 02, 1999 10:48 AM
> >Subject: [aprsspec] Tactical Call Signs
> >
> >
> > > Brent
> > >
> > > I would like to get a copy of how you do the tactical call signs via
> > > APRS messages.
> > >
> > > This is one of the things that is not in the current spec that is
missing.
> > >
> > > Keith Sproul
> > > Keith Sproul 732 445-3695 Office
> > > Student Housing Network Coordinator 732 445-2968 Fax
> > > mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
> > > http://dorm.rutgers.edu/~ksproul/ WU2Z
> > >
> > > ---
> > > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> > > To unsubscribe send a blank email to
leave-aprsspec-11594T@lists.tapir.org
> > >

```

> > >

>

> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> <mailto:ksproul@rci.rutgers.edu> 732 821-4828 Home  
> <http://dorm.rutgers.edu/~ksproul/> WU2Z  
>

---

You are currently subscribed to aprsspec as: [wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Sat Oct 02 13:05:47 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA26406  
for <[wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)>; Sat, 2 Oct 1999 12:50:31 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-42778-1999.10.02-13.01.55--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 2 Oct 1999 13:48:31 -0400  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Keith Sproul <[ksproul@vger.rutgers.edu](mailto:ksproul@vger.rutgers.edu)>  
Subject: [aprsspec] Tactical Call Signs  
Cc: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>, [aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[v04205512b41bf5787d23@165.230.36.132](mailto:v04205512b41bf5787d23@165.230.36.132)>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Brent

I would like to get a copy of how you do the tactical call signs via APRS messages.

This is one of the things that is not in the current spec that is missing.

Keith Sproul  
Keith Sproul 732 445-3695 Office  
Student Housing Network Coordinator 732 445-2968 Fax  
<mailto:ksproul@rci.rutgers.edu> 732 821-4828 Home  
<http://dorm.rutgers.edu/~ksproul/> WU2Z

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 11:55:13 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA12330  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 11:54:17 -0500 (CDT)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
X-Sender: mcmusick@mail.anet-stl.com  
Message-Id: <LYR11594-43474-1999.10.05-12.05.44--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 11:48:35 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Mike Musick <mcmusick@anet-stl.com>  
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04011700b41fce483bdd@[209.145.180.62]>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

>I think I'm ready to go back to the "PACKET" name. I changed it to  
>POSITION when GPS became so popular, but it really was "PACKET" in the  
>early days.

>

>So I say YES. PACKET.

Ohmygosh, Bob! Don't do that! LEAVE IT WHERE IT IS!

One of the prime directives of marketing is to decide on an "image" and stick with it. All the press in the past two years has been with "position", and "position" is self-explanatory. In so many words, "Automatic Position Reporting System" works - it instantly describes the core capability of the system to the uninitiated... and even non-hams. To change it back to the nebulous buzzword "packet" will be highly counterproductive.

I do realize that "APRS" belongs to you, but - please - don't make more work for everybody by changing the meaning of the acronym back to something meaningless outside of the fraternity.

...mike/N0QBF

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 12:24:23 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA13421  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 12:19:27 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Tue, 5 Oct 1999 13:19:11 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?  
In-Reply-To: <LYR11586-43474-1999.10.05-12.05.44--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11594-43481-1999.10.05-12.30.58--wd5ivd@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9910051319010.26340-1000000@arctic>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Ok, good point...

bob

On Tue, 5 Oct 1999, Mike Musick wrote:

> >I think I'm ready to go back to the "PACKET" name. I changed it to  
> >POSITION when GPS became so popular, but it really was "PACKET" in the  
> >early days.  
> >  
> >So I say YES. PACKET.  
>  
> Ohmygosh, Bob! Don't do that! LEAVE IT WHERE IT IS!  
>  
> One of the prime directives of marketing is to decide on an "image" and  
> stick with it. All the press in the past two years has been with  
> "position", and "position" is self-explanatory. In so many words,  
> "Automatic Position Reporting System" works - it instantly describes the

> core capability of the system to the uninitiated... and even non-hams. To  
> change it back to the nebulous buzzword "packet" will be highly  
> counterproductive.  
>  
> I do realize that "APRS" belongs to you, but - please - don't make more  
> work for everybody by changing the meaning of the acronym back to something  
> meaningless outside of the fraternity.  
>  
> ...mike/N0QBF  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org  
>  
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 14:38:34 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id OAA18179  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 14:28:19 -0500 (CDT)  
Message-ID: <LYR11594-43503-1999.10.05-14.39.50--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 20:27:28 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?  
In-Reply-To: <LYR11659-43481-1999.10.05-12.30.58--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <1e5VnFagEl+3EwAz@dowrmain.demon.co.uk>



Sender: bounce-aprsspec-11594@lists.tapir.org  
Precedence: bulk  
Status:

>On Tue, 5 Oct 1999, Mike Musick wrote:

>

>> Ohmygosh, Bob! Don't do that! LEAVE IT WHERE IT IS!

>>

>> One of the prime directives of marketing is to decide on an "image" and  
>> stick with it.

You're absolutely right Mike! But we have to look to the future, not drag our heels in the past. APRS *\*used\_to\_be\** a *\*position\** reporting system, but it isn't any more. As we all know, it's very much more than that now.

You tell people today that it's a *\*position\** reporting system .... yawn, ho-hum, is that all? After all, you can buy GPS-enabled map packages off-the-shelf in the local computer store for a few dollars ....

Tell them instead about all of APRS's many capabilities, which, by the way, happen to include position reporting, *\*then\** you'll awaken interest.

As I said before, to just call it a *\*position\** system is IMHO doing APRS a great injustice. Now is the time and the opportunity to project it as something much more capable.

In a nutshell, APRS has changed a great deal since it first appeared. It's time we changed the name to reflect this -- even Bob agrees. To leave it *\*unchanged\** is the retrograde step.

The way to market APRS now is to tell the world that its name *\*has\** changed. This will excite curiosity, it's something new, it's something much better than before! Remember, a lot of people probably didn't run with APRS in the old days because it was expensive, you could only report positions on crude maps, and it only worked on DOS/Windows/Mac.

Now you can attract them with a zillion features/benefits, it costs a lot less (the most popular version here in the UK costs only US\$16 to register), and it works on handhelds and Linux as well.

What do others think?

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:08:26 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id OAA19178  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 14:55:56 -0500 (CDT)  
Message-ID: <LYR11594-43507-1999.10.05-15.07.22--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 05 Oct 1999 15:54:37 -0400  
From: Marc <va3drv@rac.ca>  
Reply-To: va3drv@rac.ca  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?  
References: <LYR11613-43503-1999.10.05-14.39.50--va3drv#rac.ca@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37FA577D.D2C63098@rac.ca>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Hi All!

I can't understand where you might think that real time position plotting of information is ho-hum, but alluding to an outdated, slow and sometimes cumbersome method of transporting that same information is new and exciting. Just what is so exciting about ax25 packet, especially at 1200 baud?

We all know that APRS is used to convey much more than simple position information, yet, the bottom line is that the vast majority of users will have a map with icons on it to look at.

In fact, from what I remember, the name already included packet at one point, and was changed to denote position when GPS was introduced. What's the marketing strategy in trying to change it back again? Why confuse things?

Might I suggest if we want to change the name we should change it to ADRS i.e.: Automatic Data Reporting System, or some such generic nomenclature.

I'm not necessarily advocating a name change. I think anyone who cares already knows, and anyone who might care MAY be turned off with the "Packet" in the name. What happens when we stop using ax25 packet to deliver the information? Another name change?

I hope not.

Besides, I already bought the T-shirt! (grin)

73! de Marc, VA3DRV.

Ian Wade wrote:

```
>
> >On Tue, 5 Oct 1999, Mike Musick wrote:
> >
> >> Ohmygosh, Bob! Don't do that! LEAVE IT WHERE IT IS!
> >>
> >> One of the prime directives of marketing is to decide on an "image" and
> >> stick with it.
>
> You're absolutely right Mike! But we have to look to the future, not
> drag our heels in the past. APRS *used_to_be* a *position* reporting
> system, but it isn't any more. As we all know, it's very much more than
> that now.
>
> You tell people today that it's a *position* reporting system .... yawn,
> ho-hum, is that all? After all, you can buy GPS-enabled map packages
> off-the-shelf in the local computer store for a few dollars ....
>
> Tell them instead about all of APRS's many capabilities, which, by the
> way, happen to include position reporting, *then* you'll awaken
> interest.
>
> As I said before, to just call it a *position* system is IMHO doing APRS
```

> a great injustice. Now is the time and the opportunity to project it as  
> something much more capable.  
>  
> In a nutshell, APRS has changed a great deal since it first appeared.  
> It's time we changed the name to reflect this -- even Bob agrees. To  
> leave it \*unchanged\* is the retrograde step.  
>  
> The way to market APRS now is to tell the world that its name \*has\*  
> changed. This will excite curiosity, it's something new, it's something  
> much better than before! Remember, a lot of people probably didn't run  
> with APRS in the old days because it was expensive, you could only  
> report positions on crude maps, and it only worked on DOS/Windows/Mac.  
>  
> Now you can attract them with a zillion features/benefits, it costs a  
> lot less (the most popular version here in the UK costs only US\$16 to  
> register), and it works on handhelds and Linux as well.  
>  
> What do others think?  
>  
> 73  
> Ian, G3NRW  
> --

```

> +-----+
> |      Editor: RSGB's RadCom "Data" column.      |
> |      email: g3nrw@arrl.net                      |
> |      AX.25: G3NRW @ GB7ZPU.#21.GBR.EU          |
> |                                                  |
> | INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
> | APRS PROTOCOL SPEC:   http://www.tapr.org/tapr/html/aprswg.html |
> +-----+
>
> ---
> You are currently subscribed to aprsspec as: va3drv@rac.ca
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

```

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:08:26 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA19738  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 15:07:01 -0500 (CDT)  
Message-ID: <LYR11594-43508-1999.10.05-15.18.31--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 05 Oct 1999 16:04:34 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en

MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: FUNDAMENTAL: What does APRS stand for?  
References: <LYR11613-43503-1999.10.05-14.39.50--va3drv#rac.ca@lists.tapr.org>  
<LYR11601-43507-1999.10.05-15.07.22--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37FA59D1.3D4AF3D@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Marc wrote:

> Just what is so exciting about ax25 packet, especially at  
> 1200 baud?

It can pass through a voice grade radio (e.g. "Data over Voice")

Also, an AVL protocol can be made very compact.... 6-8 bytes. When you consider TXD times, the difference between 9600bps and 1200bps, with regards to the data frame, is insignificant.

For pure AVL, its just not that bad.

-Jeff

btw, this is off topic (sorry)

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:23:22 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA20146  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 15:23:11 -0500 (CDT)  
Mime-Version: 1.0

Message-Id: <LYR11594-43509-1999.10.05-15.34.38--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 16:22:22 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: Mostly Formatting/Clarification comments to Spec. Document  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205503b41cfe1fb66b@[165.230.139.231]>  
<LYR11588-42943-1999.10.03-02.16.00--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-42943-1999.10.03-02.16.00--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

>I just finished reviewing the Draft 1.0 Specification. I also just joined  
>the discussion list tonight, so some of this may be repeating earlier  
>comments I have not seen.  
>  
>Here are some suggestions to help make the document more readable based on  
>previous experience I have had with similar documents:  
>

<snip>

Darrell

Your comments were quite good, although somewhat more 'picky' than I  
had expected, the clarifications you suggested where all good...

I will include them in the next revision.

You asked one question that I want to answer now..

At 3:05 -0400 10/3/99, Darrell Hale wrote:

>9) Page 9 states that

>

> "The call of the station sending the object should be attached to the

>object"  
>and "All receiving software must attach to the object the call of the  
>sending station".  
>  
>How is this done?  
>

We don't care HOW it is done, we are suggesting that the software keep track of the call sign that TRANSMITTED the object. This came up when multiple stations were transmitting Hurricane objects, some were doing it correctly and some were sending bad data (entered manually). Some of the earlier versions had no way of knowing WHO transmitted WHICH object after the actual packet that caused the object to appear got flushed out of the buffers.

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:23:22 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA20163  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 15:23:16 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-43510-1999.10.05-15.34.40--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 16:22:20 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: Local Time  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205502b41cfce26bcc@[165.230.139.231]>  
<LYR11588-42955-1999.10.03-06.39.33--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-42955-1999.10.03-06.39.33--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk  
Status:

The only place (that I know of) that LOCAL time is currently used is in the NWS county alarms, and this is because the announcements on the radio are given as:

"The National Weather Service has issued a severe storm warning for the following counties, xxx xxx xxx xxx. This warning is in effect until 11:00pm this evening."

This time is always given in local time.

>Hi All- can anyone explain the use of "local time" in aprs. I cannot think  
>of a use that does not cause problems outside of a very limited  
>geographical area. Shouldn't all times be in zulu?

>

>73 de kg5qd Dale

>

>

>---

>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu  
>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Tue Oct 05 15:38:17 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id PAA20190  
for <wd5ivd@tappr.org>; Tue, 5 Oct 1999 15:23:34 -0500 (CDT)

Mime-Version: 1.0

Message-Id: <LYR11594-43511-1999.10.05-15.34.49--wd5ivd#tappr.org@lists.tappr.org>

Date: Tue, 5 Oct 1999 16:22:24 -0400

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

From: Keith Sproul <ksproul@vger.rutgers.edu>

Subject: [aprsspec] RE: Version specific DESTINATION designators

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>



List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205504b41cfffaf1453@[165.230.139.231]>  
<LYR11588-42930-1999.10.03-00.27.24--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11613-42867-1999.10.02-21.18.27--va3drv#rac.ca@lists.tapr.org>  
<LYR11588-42930-1999.10.03-00.27.24--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

The APPxxx for the Mike Music's version was left out by accident..  
(Sorry Mike)

I don't remember if APRS-Max has its own ID or not, Bob can clarify that.

As for the XASTIR, he has not been assigned anything yet, nor has he asked for one that I know of... (Bob?)

APXxxx is for the Sproul's X-APRS..

And since the Server is currently down, I can't easily go find out if he is actually using anything specific at the moment...

Thanks for the clarifications..

This is the type of stuff that I was hoping to get on this list....

Keith Sproul

At 1:00 -0400 10/3/99, va3drv@rac.ca wrote:

>Hi All!

>

> For that matter, I didnt see any destinations reserved for the Palm OS  
>platform either.

>

>73! de Marc, VA3DRV.

>Nor for the newer versions of APRSdos.

>73, Cap KE6AFE

>--

>  
>  
>Jeff King wrote:  
> >  
> > At the top of page 3, under Reserved DESTINATIONS, nothing  
> > exists for XASTIR, a released Linux based APRS display application  
> > written by Frank Giannandrea. (I am assuming the X-APRS designator  
> > was for the Sproul's Linux application, currently in Beta).  
> >  
> > -Jeff

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:38:17 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA20198  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 15:24:04 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-43512-1999.10.05-15.35.22--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 16:22:26 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: Omission - Page 8  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205505b41d01bb8f9c@[165.230.139.231]>  
<LYR11588-42889-1999.10.02-23.07.40--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-42889-1999.10.02-23.07.40--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Yes, that is correct, I was going to refer to some other document about the Mic-E.

This reference will be added to the next revision..

>The MIC-E protocol is not defined sufficiently for a programmer to  
>implement it, either on page 8 or on page 17. As the MIC-E protocol  
>can be somewhat confusing, I would recommend adding a reference to  
>it such as: <http://www.tapr.org/tapr/html/mic-e-proto.html>  
>  
>  
>---  
>You are currently subscribed to aprsspec as: [ksproul@vger.rutgers.edu](mailto:ksproul@vger.rutgers.edu)  
>To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

|                                                                                   |                     |
|-----------------------------------------------------------------------------------|---------------------|
| Keith Sproul                                                                      | 732 445-3695 Office |
| Student Housing Network Coordinator                                               | 732 445-2968 Fax    |
| <a href="mailto:ksproul@rci.rutgers.edu">mailto:ksproul@rci.rutgers.edu</a>       | 732 821-4828 Home   |
| <a href="http://dorm.rutgers.edu/~ksproul/">http://dorm.rutgers.edu/~ksproul/</a> | WU2Z                |

---  
You are currently subscribed to aprsspec as: [wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Tue Oct 05 15:55:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA20892  
for <[wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)>; Tue, 5 Oct 1999 15:44:14 -0500 (CDT)  
Date: Tue, 5 Oct 1999 15:43:56 -0500 (CDT)  
From: Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)>  
Message-Id: <LYR11594-43514-1999.10.05-15.55.36--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] References  
In-Reply-To: <LYR11595-43512-1999.10.05-15.35.22--salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199910052043.PAA36324@us.networkcs.com>  
Sender: [bounce-aprsspec-11594@lists.tapr.org](mailto:bounce-aprsspec-11594@lists.tapr.org)  
Precedence: bulk  
Status:

> Date: Tue, 5 Oct 1999 16:22:26 -0400  
> From: Keith Sproul <[ksproul@vger.rutgers.edu](mailto:ksproul@vger.rutgers.edu)>  
> Subject: [aprsspec] Re: Omission - Page 8  
>

> Yes, that is correct, I was going to refer to some other document  
> about the Mic-E.  
>  
> This reference will be added to the next revision..  
> [...]

I believe that in general information should be included in the APRS  
protocol specification, rather than merely referenced

- o Including the information in the APRS protocol specification  
ensures that it is reviewed for correctness and corrected if it  
is incomplete or incorrect.
- o Most of the documents that are likely to be referred by the  
protocol specification were not written as protocol specifications.  
As such, they are likely to contain extraneous information (e.g.,  
information about how a particular implementation works,  
information about how to use a particular implementation, or  
descriptions about how certain protocol constructs are displayed)  
and are unlikely to be rigorous, (e.g., using terms such as "must"  
and "should" appropriately).

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 15:55:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id PAA21254  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 15:51:48 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-43515-1999.10.05-16.03.19--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 5 Oct 1999 16:49:46 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: References  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205505b4201492905f@[165.230.139.231]>  
<LYR11588-43514-1999.10.05-15.55.36--ksproul#vger.rutgers.edu@lists.tapr.org>

<LYR11588-43514-1999.10.05-15.55.36--ksproul#vger.rutgers.edu@lists.tapr.org>

Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk

Status:

>

>I believe that in general information should be included in the APRS  
>protocol specification, rather than merely referenced

I agree with you, and will be doing that, just until we get it all  
done, the references are better than nothing.

The one exception to this is the NMEA spec, that is copyrighted by a  
different organization, and we will reference that.

Keith Sproul

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 16:08:13 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA21758

for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 16:02:21 -0500 (CDT)

Message-ID: <LYR11594-43517-1999.10.05-16.13.50--wd5ivd#tapr.org@lists.tapr.org>

Date: Tue, 05 Oct 1999 17:00:05 -0400

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: Keith Sproul <ksproul@vger.rutgers.edu>,

APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: Version specific DESTINATION designators

References: <LYR11601-43511-1999.10.05-15.34.49--jeff#aerodata.net@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37FA66D4.2F662EE4@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Frank:

Please see the attached. It was pointed out on the APRSSPEC list that your APRS display program "XASTIR" had not been assigned a version specific designator. The comment was made by a A:PRS-WG member that he was not aware of you asking for one.

As I don't know if your on the list, or if anyone else contracted you, I thought you might want to opportunity to request a designator, if you needed one. Please ignore this message if your already aware of this discrepancy.

Regards,

Jeff

Keith Sproul wrote:

> The APPxxx for the Mike Music's version was left out by accident..  
> (Sorry Mike)  
>  
> I don't remember if APRS-Max has its own ID or not, Bob can clarify that.  
>  
> As for the XASTIR, he has not been assigned anything yet, nor has he  
> asked for one that I know of... (Bob?)  
>  
> APXxxx is for the Sproul's X-APRS..  
>  
> And since the Server is currently down, I can't easily go find out if  
> he is actually using anything specific at the moment...  
>  
> Thanks for the clarifications..  
>  
> This is the type of stuff that I was hoping to get on this list....  
>  
> Keith Sproul  
>  
> At 1:00 -0400 10/3/99, va3drv@rac.ca wrote:  
> >Hi All!

> >  
> > For that matter, I didnt see any destinations reserved for the Palm OS  
> >platform either.  
> >  
> >73! de Marc, VA3DRV.  
>  
> >Nor for the newer versions of APRSdos.  
> >73, Cap KE6AFE  
> >--  
>  
> >  
> >  
> >Jeff King wrote:  
> > >  
> > > At the top of page 3, under Reserved DESTINATIONS, nothing  
> > > exists for XASTIR, a released Linux based APRS display application  
> > > written by Frank Giannandrea. (I am assuming the X-APRS designator  
> > > was for the Sproul's Linux application, currently in Beta).  
> > >  
> > > -Jeff  
>  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: jeff@aerodata.net  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Tue Oct 05 16:42:43 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id QAA22602  
for <wd5ivd@tappr.org>; Tue, 5 Oct 1999 16:25:47 -0500 (CDT)  
Date: Tue, 5 Oct 1999 16:25:40 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43521-1999.10.05-16.37.19--wd5ivd#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] APRS Version Designators  
In-Reply-To: <LYR11595-43517-1999.10.05-16.13.50--salo#networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910052125.QAA38243@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Why is the version of the transmitting station contained in the AX.25 Source Address?

I believe that consideration should be given to marking this protocol feature as "deprecated", (i.e., APRS receivers should accept packets with software version identification in the AX.25 Source Address, but APRS senders ought not put software version identification in the AX.25 Source Address).

Are there any cases where the receiving software operates differently based on the software version identification contained in a received APRS packet? If the answer is "Yes", then I have some concern about the protocol and its specification. If the answer is "No", then it sounds like the feature could be deprecated without difficulty.

I have three specific concerns about this feature:

- o This feature has the appearances of a backdoor method of controlling APRS implementations. All we know is that new software identifiers must be approved by the current [authorized] implementors. Whatever the actual facts, this presents the appearances of potential conflict.
- o Presumably, we will see lots of new APRS implementations in the future. I think we ought to have a really good reason to keep revising the protocol specification as new implementations are created, (or worse, not updating the specification).
- o This section has the appearance of being intimately tied with Bob's licensing and consulting activities. This seems to offer the potential for future misunderstandings.

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 16:42:44 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])



by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA22924  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 16:36:22 -0500 (CDT)  
X-Authentication-Warning: fred.genoagroup.com: fgiannan owned process doing -bs  
Date: Tue, 5 Oct 1999 15:35:56 -0600 (MDT)  
From: Frank Giannandrea <fgiannan@genoagroup.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: fgiannan@eazy.net, Keith Sproul <ksproul@vger.rutgers.edu>,  
APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] RE: Version specific DESTINATION designators  
In-Reply-To: <37FA66D4.2F662EE4@aerodata.net>  
Message-ID: <LYR11594-43525-1999.10.05-16.47.45--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.LNX.4.05.9910051516460.18960-1000000@fred.genoagroup.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Jeff, Keith, APRS-WG members, and WG-SIG,

Jeff, Thanks.. and I did get this..

As to this issue, I don't think this should be a "BIG" issue.. as I just received a new message (from the sig as he states "The letter 'Z' is reserved for 'EXPERIMENTAL', which is correct."). I don't think that this may be the proper discussion for this sig, but I did want to clear out any further discussion. As I am not it the "regular" group of APRS developers, I didn't even think ask for any special designator. If the members of the group want to add this that is fine with me, but it is not as important as a standard written protocol. I would point out that this is a transition, things will take time, don't waste time on the small details. I would rather have it all play nice together.

Keith,  
Thanks for the clarification.

73,  
Frank

On Tue, 5 Oct 1999, Jeff King wrote:

> Frank:  
>  
> Please see the attached. It was pointed out on the APRSSPEC list that  
> your APRS display program "XASTIR" had not been assigned a version  
> specific designator. The comment was made by a A:PRS-WG member that  
> he was not aware of you asking for one.  
>  
> As I don't know if your on the list, or if anyone else contracted you,  
> I thought you might want to opportunity to request a designator, if  
> you needed one. Please ignore this message if your already aware  
> of this discrepancy.  
>  
> Regards,  
>  
> Jeff  
>  
>  
> Keith Sproul wrote:  
>  
> > The APPxxx for the Mike Music's version was left out by accident..  
> > (Sorry Mike)  
> >  
> > I don't remember if APRS-Max has its own ID or not, Bob can clarify that.  
> >  
> > As for the XASTIR, he has not been assigned anything yet, nor has he  
> > asked for one that I know of... (Bob?)  
> >  
> > APXxxx is for the Sproul's X-APRS..  
> >  
> > And since the Server is currently down, I can't easily go find out if  
> > he is actually using anything specific at the moment...  
> >  
> > Thanks for the clarifications..  
> >  
> > This is the type of stuff that I was hoping to get on this list....  
> >  
> > Keith Sproul  
> >  
> > At 1:00 -0400 10/3/99, va3drv@rac.ca wrote:

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 17:52:49 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id RAA24830  
for <wd5ivd@tappr.org>; Tue, 5 Oct 1999 17:41:39 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Tue, 5 Oct 1999 18:39:45 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: APRS Version Designators  
In-Reply-To: <LYR11586-43521-1999.10.05-16.37.19--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11594-43538-1999.10.05-17.52.03--wd5ivd@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9910051837480.11830-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Wrong on all counts. The intent is to identify the code source and version of a packet for troubleshooting. With everyone and his brother now in the game, this is even more important than ever.

de WB4APR, Bob

On Tue, 5 Oct 1999, Tim Salo wrote:

> Why is the version of the transmitting station contained in the AX.25  
> Source Address?  
>  
> I believe that consideration should be given to marking this protocol  
> feature as "deprecated", (i.e., APRS receivers should accept packets with  
> software version identification in the AX.25 Source Address, but APRS  
> senders ought not put software version identification in the AX.25  
> Source Address).  
>  
> Are there any cases where the receiving software operates differently  
> based on the software version identification contained in a received  
> APRS packet? If the answer is "Yes", then I have some concern about  
> the protocol and its specification. If the answer is "No", then it  
> sounds like the feature could be deprecated without difficulty.

>  
> I have three specific concerns about this feature:  
>  
> o This feature has the appearances of a backdoor method of controlling  
> APRS implementations. All we know is that new software identifiers  
> must be approved by the current [authorized] implementors.  
> Whatever the actual facts, this presents the appearances of  
> potential conflict.  
>  
> o Presumably, we will see lots of new APRS implementations in the  
> future. I think we ought to have a really good reason to  
> keep revising the protocol specification as new implementations  
> are created, (or worse, not updating the specification).  
>  
> o This section has the appearance of being intimately tied with  
> Bob's licensing and consulting activities. This seems to offer  
> the potential for future misunderstandings.  
>  
> -tjs  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 17:52:49 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id RAA24918  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 17:46:34 -0500 (CDT)  
X-Authentication-Warning: arctic.nadm.navy.mil: bruninga owned process doing -bs  
Date: Tue, 5 Oct 1999 18:46:19 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: APRS Version Designators  
In-Reply-To: <LYR11586-43521-1999.10.05-16.37.19--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11594-43539-1999.10.05-17.58.00--wd5ivd#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9910051844510.11830-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Status:

All,

I copied this off the AMSAT BB. I think APRSdos assumes feet too.  
I will correct this in my next version to check for "units" in the  
altitude field... bob

-----  
On a much less critical note:

A few balloon launches back we noticed that the balloon GPS data  
said the payload was at 20,000 feet an hour after launch. It was  
SUPPOSED to be at 60K+ feet.

You guessed it. The GPS was putting out altitude in meters,  
and the ground software wasn't doing the conversion. Fortunately  
the simple analog temperature sensor told the true story, although  
less accurate (temp to altitude conversion). We finally figured  
out that things were working. We just weren't translating.

We got off much cheaper than NASA...

Andy W5ACM

On Fri, 1 Oct 1999, Dr Thomas A Clark (W3IWI) wrote:

> This would be funny if it wasn't so sad! NASA today released a  
> report on the reason that the the Mars Climate Observer had its  
> catastrophic failure last week. The Lockheed-Martin (LockMart -- your  
> one stop aerospace contractor) team in Colorado transmitted some  
> crucial data to the JPL controllers. Unfortunately, LockMart  
> used English (feet-inches) and JPL expected metric units. The  
> result was that the spacecraft was destroyed as it slammed into the

> Martian atmosphere. The following press release is on the NASA web  
> site at URL  
>  
>       ftp://ftp.hq.nasa.gov/pub/pao/pressrel/1999/99-113.txt  
>  
> Tom  
>  
> -----  
>  
> > MARS CLIMATE ORBITER TEAM FINDS LIKELY CAUSE OF LOSS  
> >  
> >       A failure to recognize and correct an error in a transfer of  
> > information between the Mars Climate Orbiter spacecraft team in  
> > Colorado and the mission navigation team in California led to the  
> > loss of the spacecraft last week, preliminary findings by NASA's  
> > Jet Propulsion Laboratory internal peer review indicate.  
> >  
> >       "People sometimes make errors," said Dr. Edward Weiler,  
> > NASA's Associate Administrator for Space Science. "The problem  
> > here was not the error, it was the failure of NASA's systems  
> > engineering, and the checks and balances in our processes to  
> > detect the error. That's why we lost the spacecraft."  
> >  
> >       The peer review preliminary findings indicate that one team  
> > used English units (e.g., inches, feet and pounds) while the other  
> > used metric units for a key spacecraft operation. This  
> > information was critical to the maneuvers required to place the  
> > spacecraft in the proper Mars orbit.  
> >  
> >       "Our inability to recognize and correct this simple error  
> > has had major implications," said Dr. Edward Stone, director of  
> > the Jet Propulsion Laboratory. "We have underway a thorough  
> > investigation to understand this issue."  
> >  
> >       Two separate review committees have already been formed to  
> > investigate the loss of Mars Climate Orbiter: an internal JPL peer  
> > group and a special review board of JPL and outside experts. An  
> > independent NASA failure review board will be formed shortly.  
> >  
> >       "Our clear short-term goal is to maximize the likelihood of a  
> > successful landing of the Mars Polar Lander on December 3," said  
> > Weiler. "The lessons from these reviews will be applied across the  
> > board in the future."  
> >  
> >       Mars Climate Orbiter was one of a series of missions in a  
> > long-term program of Mars exploration managed by the Jet  
> > Propulsion Laboratory for NASA's Office of Space Science,  
> > Washington, DC. JPL's industrial partner is Lockheed Martin

> > Astronautics, Denver, CO. JPL is a division of the California  
> > Institute of Technology, Pasadena, CA.  
> ----  
> Via the amsat-bb mailing list at AMSAT.ORG courtesy of AMSAT-NA.  
> To unsubscribe, send "unsubscribe amsat-bb" to Majordomo@amsat.org  
>

----  
Via the amsat-bb mailing list at AMSAT.ORG courtesy of AMSAT-NA.  
To unsubscribe, send "unsubscribe amsat-bb" to Majordomo@amsat.org

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 18:47:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA25813  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 18:25:14 -0500 (CDT)  
Message-Id: <LYR11594-43544-1999.10.05-18.36.46--wd5ivd#tapr.org@lists.tapr.org>  
X-Sender: kd4rdb@mail.netzero.com  
Date: Tue, 05 Oct 1999 19:24:05 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Wes Johnston <kd4rdb@netzero.com>  
Subject: [aprsspec] APRS Objects  
In-Reply-To: <LYR11698-43509-1999.10.05-15.34.38--kd4rdb#netzero.com@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <4.2.0.58.19991005190846.009f02a0@mail.netzero.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I made a suggestion to the APRS authors a few weeks ago, and perhaps this is the forum to mention again.

If we are to gain any credibility with any official agency (ie the NWS), we need a way to control objects better.

1) We need a 2nd level of objects that can ONLY be created and modified by "official" stations, such as SKYWARN stations. General users should be

able to create objects as usual and move them around.

2) There should be a method for turning off all "non official" objects on YOUR screen. Any object you create will be visible regardless of the state of this QRM filter.

Using this method, we can publish "official" storm positions, and not have to see ALL of the other erroneous positions / misspelled storms. We can prevent unofficial stations from grabbing an official object and moving it for us. All that we need to do is alter the symbol that begins the object. Presently it is a semicolon. I'm not sure which ASCII character we'd choose to use, and it doesn't matter... just as long as "unofficial" stations continue to create semicolon objects, and are not permitted to create "official other yet to be decided ascii characters" messages.

Hope this makes sense!

Wes

Wes

kd4rdb@usa.net

Stupidity should be painful

-----  
NetZero - Defenders of the Free World  
Get your FREE Internet Access and Email at  
<http://www.netzero.net/download/index.html>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Tue Oct 05 19:07:34 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id TAA26880  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 19:07:09 -0500 (CDT)  
Message-ID: <LYR11594-43546-1999.10.05-19.18.40--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 05 Oct 1999 20:06:27 -0400  
From: amartin@interactive.net (Art Martin)  
X-Accept-Language: en,ja,de-DE  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Local Time  
References: <LYR11676-43510-1999.10.05-15.34.40--  
amartin#interactive.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>



List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <37FA9283.361D45A2@interactive.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Hi, all...

I agree with Keith in that the verbal "in effect to" time is local. As such it is directed to those close enough to the issuing office who are (usually) in the same time zone.

The encoded data header for NWS WX (including counties and zones) ends with ZULU/UTC although not normally indicated with the Z indicator. These releases can be captured by distant users in other time zones, via the internet, world-wide.

Having a transmitted time or day/time with Z (or U as an optional value for the purists) as the trailing character could be considered for incorporation into the Specification. Packet operators world-wide have long understood the usage of the Z indicator in time specification.

I support the concept of having Local time as a display only value which would be a local option with the user.

Thanks for the use of the soapbox.  
73 de Art  
--

Keith Sproul wrote:

>  
> The only place (that I know of) that LOCAL time is currently used is  
> in the NWS county alarms, and this is because the announcements on  
> the radio are given as:  
>  
> "The National Weather Service has issued a severe storm  
> warning for the following counties, xxx xxx xxx xxx. This warning is  
> in effect until 11:00pm this evening."  
>  
> This time is always given in local time.  
>  
> >Hi All- can anyone explain the use of "local time" in aprs. I cannot think  
> >of a use that does not cause problems outside of a very limited  
> >geographical area. Shouldn't all times be in zulu?  
> >

> >73 de kg5qd Dale  
> >  
> >  
> >---  
> >You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu  
> >To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org  
>  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: amartin@interactive.net  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

--  
Art Martin N2QAE  
Long Valley, Morris County, NJ, USA  
mailto:amartin@interactive.net  
Find me at: http://map.aprs.net:8000/n2qae  
--

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Tue Oct 05 19:23:01 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id TAA27028  
for <wd5ivd@tappr.org>; Tue, 5 Oct 1999 19:14:04 -0500 (CDT)  
Message-ID: <LYR11594-43547-1999.10.05-19.25.30--wd5ivd#tappr.org@lists.tappr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
References: <LYR11676-43510-1999.10.05-15.34.40--  
amartin#interactive.net@lists.tappr.org> <LYR11608-43546-1999.10.05-19.18.40--  
dvanhorn#cedar.net@lists.tappr.org>  
Subject: [aprsspec] Re: Local Time  
Date: Tue, 5 Oct 1999 19:13:29 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <02e301bf0f8f\$9e10bbe0\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> Having a transmitted time or day/time with Z (or U as an optional value  
> for the purists) as the trailing character could be considered for  
> incorporation into the Specification. Packet operators world-wide have  
> long understood the usage of the Z indicator in time specification.  
>  
> I support the concept of having Local time as a display only value which  
> would be a local option with the user.

I completely agree, Z is the only way to always know.  
I live in E indiana where we do not mess with our clocks twice a year.  
If it's not Z, then there's a mess of interpreting to do, based on where the  
sending station is.. :-P

Now if we used swatch beats.... (oonly kidding!)

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 20:43:33 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA29796  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 20:40:45 -0500 (CDT)  
From: smorris@mindspring.com  
Message-ID: <LYR11594-43562-1999.10.05-20.52.13--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11686-43544-1999.10.05-18.36.46--  
smorris#mindspring.com@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Tue, 5 Oct 1999 21:43:05 -0400  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <000e01bf0f9c\$23373a40\$0501a8c0@smorris>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

What you are saying is a good idea. It would be a layering of the stations. This is done a great deal in network drawings and maps, which APRS is a network/map drawing. One layer is the map, the next layer would be the "Official" objects, and a third layer could be the general users. But this adds a level of complexity, maybe not to the APRS spec, but how the APRS software would be written. There would have to be an additional identifier added of some type to designate what type of station it is, official vs. general.

Just my thoughts.

Scott

----- Original Message -----

From: Wes Johnston <kd4rdb@netzero.com>

To: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Sent: Tuesday, October 05, 1999 7:24 PM

Subject: [aprsspec] APRS Objects

> I made a suggestion to the APRS authors a few weeks ago, and perhaps this  
> is the forum to mention again.  
>  
> If we are to gain any credibility with any official agency (ie the NWS),  
we  
> need a way to control objects better.  
>  
> 1) We need a 2nd level of objects that can ONLY be created and modified by  
> "official" stations, such as SKYWARN stations. General users should be  
> able to create objects as usual and move them around.  
>  
> 2) There should be a method for turning off all "non official" objects on  
> YOUR screen. Any object you create will be visible regardless of the  
state  
> of this QRM filter.  
>  
> Using this method, we can publish "official" storm positions ,and not have  
> to see ALL of the other erroneous positions / misspelled storms. We can  
> prevent unofficial stations from grabbing an official object and moving it

> for us. All that we need to do is alter the symbol that begins the  
> object. Presently it is a semicolon. I'm not sure which ASCII character  
> we'd choose to use, and it doesn't matter... just as long as "unofficial"  
> stations continue to create semicolon objects, and are not permitted to  
> create "official other yet to be decided ascii characters" messages.  
>  
> Hope this makes sense!  
> Wes  
>  
>  
> Wes  
> kd4rdb@usa.net  
> Stupidity should be painful  
>  
> -----  
> NetZero - Defenders of the Free World  
> Get your FREE Internet Access and Email at  
> <http://www.netzero.net/download/index.html>  
>  
> ---  
> You are currently subscribed to aprsspec as: smorris@mindspring.com  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org  
>

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Tue Oct 05 21:29:00 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id VAA00862  
for <wd5ivd@tappr.org>; Tue, 5 Oct 1999 21:19:04 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-43565-1999.10.05-21.30.33--wd5ivd#tappr.org@lists.tappr.org>  
Date: Tue, 5 Oct 1999 22:17:32 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: APRS Objects  
Cc: aprsspec@lists.tappr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <v04205504b4205fe82e2d@[165.230.139.231]>  
<LYR11588-43544-1999.10.05-18.36.46--ksproul#vger.rutgers.edu@lists.tappr.org>

<LYR11588-43544-1999.10.05-18.36.46--ksproul#vger.rutgers.edu@lists.tapr.org>

Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk

Status:

Wes,

Although I completely agree with what you are proposing, it might not be a protocol issue. It might just be a software issue on the users end. One example could be to have a list of 'known good originating stations' that software says ONLY SHOW OBJECTS IF THEY CAME FROM ONE OF THESE STATIONS..

This is one of the reasons we have 'magic secret decoder ring' for the issuing of NWS county alerts.. The NWS specifically asked us to limit the creation of these alerts.

I agree that we have to cut down on the bad reports.. The MAIN way should be via education...

As for the storms etc, the stuff that Dale Hugely is doing to automatically create this will (hopefully) reduce the number of people putting up the erroneous ones..

Keith

>I made a suggestion to the APRS authors a few weeks ago, and perhaps this is the forum to mention again.

>

>If we are to gain any credibility with any official agency (ie the >NWS), we need a way to control objects better.

>

>1) We need a 2nd level of objects that can ONLY be created and >modified by "official" stations, such as SKYWARN stations. General >users should be able to create objects as usual and move them around.

>

>2)There should be a method for turning off all "non official" >objects on YOUR screen. Any object you create will be visible >regardless of the state of this QRM filter.

>

>Using this method, we can publish "official" storm positions ,and >not have to see ALL of the other erroneous positions / misspelled >storms. We can prevent unofficial stations from grabbing an >official object and moving it for us. All that we need to do is >alter the symbol that begins the object. Presently it is a

>semicolon. I'm not sure which ASCII character we'd choose to use,  
>and it doesn't matter... just as long as "unofficial" stations  
>continue to create semicolon objects, and are not permitted to  
>create "official other yet to be decided ascii characters" messages.  
>  
>Hope this makes sense!  
>Wes  
>  
>  
>Wes  
>kd4rdb@usa.net  
>Stupidity should be painful

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 21:43:23 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA01363  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 21:35:42 -0500 (CDT)  
Message-Id: <LYR11594-43566-1999.10.05-21.47.13--wd5ivd#tapr.org@lists.tapr.org>  
X-Sender: kd4rdb@mail.netzero.com  
Date: Tue, 05 Oct 1999 22:34:57 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Wes Johnston <kd4rdb@netzero.com>  
Subject: [aprsspec] Re: APRS Objects  
Cc: aprsspec@lists.tapr.org  
In-Reply-To: <v04205504b4205fe82e2d@[165.230.139.231]>  
References: <LYR11588-43544-1999.10.05-18.36.46--  
ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-43544-1999.10.05-18.36.46--ksproul#vger.rutgers.edu@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <4.2.0.58.19991005222226.009e3960@mail.netzero.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Dale is publishing these objects... but for example when Hurricane Floyd came thru, I literally waited for 8 or 10 hours to get Floyd on my screen at all... I realize that he is publishing this data when it is given to him, but we need to think about the "net cycle" time of 30 mins... and include such objects in there. Otherwise, someone will take it upon themselves to create Floyd. If Floyd already exists, they wouldn't feel the need.

Another issue is malicious use of an object. We need to be able to create an object that no one but an official user can move. That way Mr. Average Joe won't click on the hurricane with his ALT button pressed and drag it around (not realizing that he's moving it on EVERYONE's screens.). When I showed APRS off for the Georgetown SC EOC a few years ago, that was one of their concerns.. I said aprs was an open system... they said "We don't want anyone controlling our objects".

Wes

At 10:17 PM 10/5/99 -0400, Keith Sproul wrote:

>Wes,

>

>Although I completely agree with what you are proposing, it might not be a  
>protocol issue. It might just be a software issue on the users end. One  
>example could be to have a list of 'known good originating stations' that  
>software says ONLY SHOW OBJECTS IF THEY CAME FROM ONE OF THESE STATIONS..

>

>

>This is one of the reasons we have 'magic secret decoder ring' for the  
>issuing of NWS county alerts.. The NWS specifically asked us to limit the  
>creation of these alerts.

>

>I agree that we have to cut down on the bad reports.. The MAIN way should  
>be via education...

>

>As for the storms etc, the stuff that Dale Hugely is doing to  
>automatically create this will (hopefully) reduce the number of people  
>putting up the erroneous ones..

>

>

>Keith

>

|                                      |                     |
|--------------------------------------|---------------------|
| >Keith Sproul                        | 732 445-3695 Office |
| >Student Housing Network Coordinator | 732 445-2968 Fax    |
| >mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| >http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

Wes



kd4rdb@usa.net  
Stupidity should be painful

-----  
NetZero - Defenders of the Free World  
Get your FREE Internet Access and Email at  
<http://www.netzero.net/download/index.html>

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 21:58:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA01814  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 21:52:53 -0500 (CDT)  
Message-ID: <LYR11594-43567-1999.10.05-22.04.16--wd5ivd#tapr.org@lists.tapr.org>  
Reply-To: "Dale E. Reed" <w8abz@mindspring.com>  
From: "Dale E. Reed" <w8abz@mindspring.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omissions, References, requests for clarification: WX, NTS  
traffic, NSWE, etc.  
Date: Tue, 5 Oct 1999 22:51:15 -0400  
Organization: Amateur Radio Station W8ABZ  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="Windows-1252"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <004701bf0fa5\$a9b81fe0\$0245a8c0@ms449363>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I perused the 22 messages in the Web page "Visit" before I signed up. Then I bounced a message, found out two days later. I hope the following discourse is not redundant. Apologies if it is....

On page 8, in the Weather Report section, reference is made to WX.TXT, but it is not available at the APRS spec. web page. Obviously, all referenced files should be included on the web page for review.

{NOTE: I should have read WX.TXT before typing the following, but this comes from a reading of the protocol spec itself:}

Also, in the wx example given:

(I quote)

@DDHHMM/DDMM.hhN/DDMM.hhW\_CSE/SPDgXXXtXXXrXXXpXXXPXXXhXXbXXXXXdU2k

r is in hundredths of an inch of rain in the LAST HOUR

p is in hundredths of an inch of rain in the LAST 24 HOURS

P is in hundredths of an inch of rain since midnight

s is INCHES of snow in the last 24 hours

b is in tenths of millibars

h is percent humidity (00=100%)

dU2k is Ultimeater 2000,

U5 is the 500,

Dvs is Davis

RSW is Radio Shack

PIC is a PIC device (K4HG?)

HKT is Heathkit

The first character designates what version of APRS

'd' = APRSdos

'W' = WinAPRS

'M' = MacAPRS

'X' = X-APRS (Linux)

'S' = APRS+SA

Lxxx is luminosity in Watts per square meter 999 and below

lxxx is luminosity in Watts per square meter 1000 and above

L is inserted in place of one of the rain values.

(end of quote)

... no reference is made to the gXXX and tXXX; I assume these are gust speed (what basis? peak, 1 min. avg., other? what units, for that matter?) and temperature (whole degrees F, I assume... signed? where does the "-" go? how to represent -100 degf?)

In the "dU2K", is the "d" the DOS designator, so that WU2K would be the U2000 reported by WinAPRS? Then other examples would be dU5, MDvs, etc...

Also, what is the usage of "luminosity"?

I'm guessing all these are answered in WX.TXT....

Also, I'm assuming, but it's not stated explicitly, that the letter (g, t, l, etc.) comes BEFORE the digits of the corresponding value. (Again, WX.TXT) Are all values are fixed width or some variable?

Yes, I know, I'll go back and read my copy of WX.TXT from my APRS docs.

The position examples use N and W; I assume S and E are valid. Which letter

is used for positions of 00.0000 latitude and 000.0000 and 180.0000 longitude? Even if they "never" appear, it is possible to navigate there, so it should be stated in the spec. Is either letter allowable (00.0000N = 00.0000S)?

The protocol seems to have, but it is not explicitly stated so anywhere, various "sections", like a position section, a comments section, etc., so that any "position" format could be substituted in the appropriate part of the packet. Is this so? To what extent? Could a WX report be sent with a Pos in GRID-in-TO format? An object sent with a MIC-E compressed pos? Please be VERY clear on the allowable combinations of these "parts" -- position, weather, telemetry, comments, messages / bulletins / announcements, mail, any others. Altitude? Or is that only in the appropriate GPS format (GPRMC, I think...)? Also, there is no reference to or discussion of NTS traffic handling. Is there a specific sequence of messages used for the message number, originating station, check, place of origin, time/date, addressee, message and signature?

Basically, are we documenting only what is currently being sent over the air, or are we documenting what is acceptable to at least some version (DOS, Mac, Win, X, Xastir, +, Palm), whether it actually occurs on the air or not, but is still part of the "current protocol"?

73 and MANY thanks for the effort to date! (After all, this is a HOBBY!) And thanks for listening to my diatribe. (Go, Tribe!)

Dale, W8ABZ  
Cleveland Hts., OH  
w8abz@mindspring.com

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 05 21:58:19 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA01994  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 21:57:45 -0500 (CDT)  
Message-ID: <LYR11594-43568-1999.10.05-22.09.12--wd5ivd#tapr.org@lists.tapr.org>  
Date: Tue, 05 Oct 1999 22:57:44 -0400  
From: amartin@interactive.net (Art Martin)  
X-Accept-Language: en,ja,de-DE  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects

References: <LYR11676-43565-1999.10.05-21.30.33--  
amartin@interactive.net@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <37FABAA8.526E0AE2@interactive.net>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Hi, all....

On a side issue (NWS WX counties) some document, somewhere, might include the concept of prioritizing the NWS warning/watch/advisory/etc so that the highest priority would be displayed (the on-top layer concept) until it reached expiration. Then automatically replace that higher priority item with the next highest, ad infinitum, until there were no more WX items to be displayed for that location. I am not aware that we have any APRS software that will permit that to occur.... yet. TNX for the use of the soapbox!

73 de Art

--

Keith Sproul wrote:

>  
> Wes,  
>  
> Although I completely agree with what you are proposing, it might not  
> be a protocol issue. It might just be a software issue on the users  
> end. One example could be to have a list of 'known good originating  
> stations' that software says ONLY SHOW OBJECTS IF THEY CAME FROM ONE  
> OF THESE STATIONS..  
>  
> This is one of the reasons we have 'magic secret decoder ring' for  
> the issuing of NWS county alerts.. The NWS specifically asked us to  
> limit the creation of these alerts.  
>  
> I agree that we have to cut down on the bad reports.. The MAIN way  
> should be via education...  
>  
> As for the storms etc, the stuff that Dale Hugely is doing to  
> automatically create this will (hopefully) reduce the number of

> people putting up the erroneous ones..  
>  
> Keith  
>  
> >I made a suggestion to the APRS authors a few weeks ago, and perhaps this is  
the forum to mention again.  
> >  
> >If we are to gain any credibility with any official agency (ie the  
> >NWS), we need a way to control objects better.  
> >  
> >1) We need a 2nd level of objects that can ONLY be created and  
> >modified by "official" stations, such as SKYWARN stations. General  
> >users should be able to create objects as usual and move them around.  
> >  
> >2)There should be a method for turning off all "non official"  
> >objects on YOUR screen. Any object you create will be visible  
> >regardless of the state of this QRM filter.  
> >  
> >Using this method, we can publish "official" storm positions ,and  
> >not have to see ALL of the other erroneous positions / misspelled  
> >storms. We can prevent unofficial stations from grabbing an  
> >official object and moving it for us. All that we need to do is  
> >alter the symbol that begins the object. Presently it is a  
> >semicolon. I'm not sure which ASCII character we'd choose to use,  
> >and it doesn't matter... just as long as "unofficial" stations  
> >continue to create semicolon objects, and are not permitted to  
> >create "official other yet to be decided ascii characters" messages.  
> >  
> >Hope this makes sense!  
> >Wes  
> >  
> >  
> >Wes  
> >kd4rdb@usa.net  
> >Stupidity should be painful  
>  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: amartin@interactive.net  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

--

Art Martin N2QAE  
Long Valley, Morris County, NJ, USA

mailto:amartin@interactive.net  
Find me at: <http://map.aprs.net:8000/n2qae>  
--

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Tue Oct 05 22:13:20 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id WAA02057  
for <wd5ivd@tapr.org>; Tue, 5 Oct 1999 22:00:05 -0500 (CDT)  
Message-ID: <LYR11594-43569-1999.10.05-22.11.33--wd5ivd#tapr.org@lists.tapr.org>  
From: "Jim Gill" <jimgill@ix.netcom.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: <aprsspec@lists.tapr.org>  
References: <<LYR11588-43544-1999.10.05-18.36.46--  
ksproul#vger.rutgers.edu@lists.tapr.org><LYR11588-43544-1999.10.05-18.36.46--  
ksproul#vger.rutgers.edu@lists.tapr.org> <LYR11705-43566-1999.10.05-21.47.13--  
jimgill#ix.netcom.com@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Tue, 5 Oct 1999 21:49:55 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <012901bf0fa5\$79ef2740\$0100a8c0@netcom>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Something I have thought of/seen, of course related to the hurricane problem, is (potentially unknowing) use of duplicate object names. For example, somewhere in the midwest someone sends a HAMFEST object. A day later, someone else, different city, maybe unaware of the other object, sends a HAMFEST object for their city, removing the other valid object. They maybe should have used HAMFEST2 or whatever.

I don't know if it would be practical to have some sort of error-trapping built in the software to say "there is another object with this name, are you sure you want to send this object, YES or RENAME your object", etc., since we are on a national scale not just local even with local RF objects.

Another 0.02 .

Jim  
NORMO  
Omaha, NE

> We need to be able to create  
> an object that no one but an official user can move. That way Mr. Average  
> Joe won't click on the hurricane with his ALT button pressed and drag it  
> around (not realizing that he's moving it on EVERYONE's screens.). When I  
> showed APRS off for the Georgetown SC EOC a few years ago, that was one of  
> their concerns.. I said aprs was an open system... they said "We don't want  
> anyone controlling our objects".  
>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 05:41:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id FAA27714  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 05:32:46 -0500 (CDT)  
Message-ID: <LYR11594-43611-1999.10.06-05.44.17--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dale Huguley" <kg5qd@worldnet.att.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Comment:Local Time and Objects  
Date: Wed, 6 Oct 1999 10:28:19 -0000  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <002d01bf0fe5\$82d9c320\$2f984d0c@oemcomputer>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I occurs to me that "Local Time" could be designated with a single character  
for the time zone- there is something like that already in the database I

use to generate NWS maps. My problem with "Local time" is that if you are outside of the "Local Area" you have to know the sending station's position. to decipher the time. If your time zone is different than the "local time" you will never see a lot of the NWS warnings. If you are in Yuma Arizona and issue NWS warnings for the Yuma/Imperial area you have a devil of a time deciding which time zone to use.

Keith Sproul and I had talked about a first character designator for "Automatically Parsed Data" to take care of some of the problems with Hurricanes, Tornados etc. Presently there is a "." (period) for Space Weather which could be redefined as "Automatic". The various authors will have to see if this is feasible. I think the Space Weather will probably end up being sent as normal messages.

73 de kg5qd Dale

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 11:09:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA06482  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 11:08:29 -0500 (CDT)  
Message-ID: <LYR11594-43642-1999.10.06-11.20.03--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-43611-1999.10.06-05.44.17--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: Comment:Local Time and Objects  
Date: Wed, 6 Oct 1999 11:07:50 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <002f01bf1014\$f0cb2a20\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:



> I occurs to me that "Local Time" could be designated with a single character  
> for the time zone- there is something like that already in the database I  
> use to generate NWS maps. My problem with "Local time" is that if you are  
> outside of the "Local Area" you have to know the sending station's  
> position. to decipher the time.

It's worse than that, the edges of time zones aren't straight.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 11:24:24 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA06945  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 11:23:06 -0500 (CDT)  
Date: Wed, 6 Oct 1999 11:22:58 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43643-1999.10.06-11.34.39--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Version Designators  
In-Reply-To: <LYR11595-43538-1999.10.05-17.52.03--salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910061622.LAA71098@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> Date: Tue, 5 Oct 1999 18:39:45 -0400 (EDT)  
> From: Bob Bruninga <bruninga@nadm.navy.mil>  
> Subject: [aprsspec] Re: APRS Version Designators  
>  
> Wrong on all counts. The intent is to identify the code source and  
> version of a packet for troubleshooting. With everyone and his brother  
> now in the game, this is even more important than ever.

Oh... (although appearances are important in this matter).

I don't find the software version of the sending station a particularly

useful protocol construct, but I suspect that this reflects differences in protocol implementation philosophies. I think some examples of how you have used this field would be enlightening.

I started crafting a much longer reply, but my short answer is that I believe that it is the responsibility of the receiver to process any malformed packet without blowing up. I believe that this is the only approach that will work in the evolving APRS environment, particularly given:

- o the move to an open APRS development community where presumably many new, uncoordinated APRS implementation will emerge, and
- o the emphasis placed on APRS as emergency communications tool.

Among other effects, this receiver-validates-all-packets approach removes the need to quickly find the originator of malformed packets. Rather, the immediate response to software blowing up in response to received packets is to release a corrected version of the receiving software that silently ignores the malformed packet, rather than blowing up. Therefore, knowledge of the sending software version is a less pressing need.

I recognize that you are developing in a environment with only a limited amount of memory, that you like to add new features, and that you have chosen a monolithic software model (one program does everything). I also realize that at times these objectives conflict with the inclusion of extensive error checking of received packets. I guess I don't have much of a recommendation beyond observing that I believe that extensive validation of received packets is the only approach that scales into the future.

It would probably also be useful if I got around to sending e-mail about the lessons learned about ensuring interoperability and robustness in the Internet, (since I think these are the issues you are trying to address with the sender software version identification.)

By the way, what would be really useful is to include the APRS protocol version number in the packet. But, that too is the topic for another e-mail message.

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 11:39:24 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA07197  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 11:30:36 -0500 (CDT)  
Date: Wed, 6 Oct 1999 11:30:29 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43645-1999.10.06-11.42.10--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11595-43544-1999.10.05-18.36.46--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910061630.LAA71397@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> Date: Tue, 05 Oct 1999 19:24:05 -0400  
> From: Wes Johnston <kd4rdb@netzero.com>  
> Subject: [aprsspec] APRS Objects  
> [...]  
> 1) We need a 2nd level of objects that can ONLY be created and modified by  
> "official" stations, such as SKYWARN stations. General users should be  
> able to create objects as usual and move them around.  
> [...]

I believe that the most appropriate technology to address this need is  
cryptographic authentication. That is, the originator might  
cryptographically "sign" an APRS message. The receiver could then,  
if and when desired, verify the signature on the message in order to  
verify the identity of the sender.

This sounds like a good master's thesis for someone...

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 11:39:24 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA07411  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 11:37:26 -0500 (CDT)  
Message-ID: <LYR11594-43647-1999.10.06-11.48.40--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-43645-1999.10.06-11.42.10--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Wed, 6 Oct 1999 11:35:47 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <00ef01bf1018\$d7edab00\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> I believe that the most appropriate technology to address this need is  
> cryptographic authentication. That is, the originator might  
> cryptographically "sign" an APRS message. The receiver could then,  
> if and when desired, verify the signature on the message in order to  
> verify the identity of the sender.

This would introduce a module of "secret code" that would really interfere with portability. I'm having trouble imagining a cryptographic approach that would allow open source on the algorithm, and knowlege of what's being encoded, and still be secure.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 12:09:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA08279  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 12:05:29 -0500 (CDT)  
Date: Wed, 6 Oct 1999 12:05:19 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43650-1999.10.06-12.17.03--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11595-43647-1999.10.06-11.48.40--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199910061705.MAA72973@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> From: "Dave VanHorn" <dvanhorn@cedar.net>  
> Subject: [aprsspec] Re: APRS Objects  
> Date: Wed, 6 Oct 1999 11:35:47 -0500  
>  
> > I believe that the most appropriate technology to address this need is  
> > cryptographic authentication. That is, the originator might  
> > cryptographically "sign" an APRS message. The receiver could then,  
> > if and when desired, verify the signature on the message in order to  
> > verify the identity of the sender.  
>  
> This would introduce a module of "secret code" that would really interfere  
> with portability. I'm having trouble imagining a cryptographic approach  
> that would allow open source on the algorithm, and knowledge of what's being  
> encoded, and still be secure.

I recommend a solution based on public key cryptography and digital signatures. The algorithms are public, and I believe that quite a bit of code is available for the algorithms. The missing piece is the public key of the entity signing the messages. This could be received from a trusted online source, such as an APRSServe (but, you might want to authenticate the identity of the APRSServe...) or a set of public keys could be distributed with APRS software or via the Web.

One source of info about public key cryptography is the RSA FAQ:

<http://www.rsasecurity.com/rsalabs/faq/>

Note that some languages include support for these services:

<http://www.java.sun.com/products/jce/index.html>

This is a complicated area, but the science needs to be understood by only a very small number of APRS developers (one might be enough). There are lots of issues, such as selecting the appropriate algorithm, designing a key distribution mechanism, and avoiding the Export Control Act,

(cryptography is a munition). Given a design, most developers should be able to implement the functionality.

This feature would probably be optional. Some implementations may choose to not implement digital signatures and therefore implicitly assume that all messages originate from valid sources.

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 12:24:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA08448  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 12:10:13 -0500 (CDT)  
Message-ID: <LYR11594-43652-1999.10.06-12.21.45--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-43650-1999.10.06-12.17.03--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Wed, 6 Oct 1999 12:09:34 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <018d01bf101d\$9032af40\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> I recommend a solution based on public key cryptography and digital  
> signatures. The algorithms are public, and I believe that quite a bit  
> of code is available for the algorithms. The missing piece is the  
> public key of the entity signing the messages. This could be received  
> from a trusted online source, such as an APRServe (but, you might want  
> to authenticate the identity of the APRServe...) or a set of public

> keys could be distributed with APRS software or via the Web.

This is a "big computer" job. I admit my bias here, I'd like to stay with what can reasonably be achieved in a microcontroller. All we NEED here is authentication, not encryption. It's a crime to use someone else's callsign, so I think we already have the needed mechanism. If someone starts bootlegging calls and screwing around with objects, then folks like me need to start hunting his ass. (DF gear on standby 24/7)

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 12:53:58 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA09336  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 12:39:32 -0500 (CDT)  
Date: Wed, 6 Oct 1999 12:39:21 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43655-1999.10.06-12.51.05--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11595-43652-1999.10.06-12.21.45--salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910061739.MAA74682@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> From: "Dave VanHorn" <dvanhorn@cedar.net>  
> To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
> Subject: [aprsspec] Re: APRS Objects  
> Date: Wed, 6 Oct 1999 12:09:34 -0500  
>  
> > I recommend a solution based on public key cryptography and digital  
> > signatures. The algorithms are public, and I believe that quite a bit  
> > of code is available for the algorithms. The missing piece is the  
> > public key of the entity signing the messages. This could be received  
> > from a trusted online source, such as an APRSServe (but, you might want

> > to authenticate the identity of the APRServe...) or a set of public  
> > keys could be distributed with APRS software or via the Web.  
>  
> This is a "big computer" job. I admit my bias here, I'd like to stay with  
> what can reasonably be achieved in a microcontroller.

Gosh. A ring on my finger can do this  
(<http://www.ibutton.com/ibuttons/index.html>). So can a card in my wallet  
(<http://java.sun.com/products/javacard/index.html>)

> All we NEED here is authentication, not encryption.

I am suggesting authentication based on cryptography, not encryption.  
The APRS message would still be in clear text; it would merely have  
some junk (a digital signature) appended to the end.

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 13:08:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA09822  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 12:55:47 -0500 (CDT)  
Message-ID: <LYR11594-43656-1999.10.06-13.07.21--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-43655-1999.10.06-12.51.05--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Wed, 6 Oct 1999 12:55:10 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <01c701bf1023\$eec12b80\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:



> Gosh. A ring on my finger can do this  
> (<http://www.ibutton.com/ibuttons/index.html>). So can a card in my wallet  
> (<http://java.sun.com/products/javacard/index.html>)

But we will also be busy doing OTHER things, like APRS.

> > All we NEED here is authentication, not encryption.  
>  
> I am suggesting authentication based on cryptography, not encryption.  
> The APRS message would still be in clear text; it would merely have  
> some junk (a digital signature) appended to the end.

I get the difference, and I wasn't thinking you meant encrypted packets.  
The "junk" still has to be generated for each packet.  
If the "junk" is the same on each packet, then joe nasty can just copy my  
"junk".  
Still, all we need is to authenticate the sender.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Wed Oct 06 13:08:55 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id NAA10402  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 13:08:09 -0500 (CDT)  
From: "Rob Wittner" <[rmw@rwa-inc.com](mailto:rmw@rwa-inc.com)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: APRS Version Designators  
Date: Wed, 6 Oct 1999 14:08:11 -0400  
Message-ID: <LYR11594-43657-1999.10.06-13.19.42--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 8bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
In-Reply-To: <LYR11697-43643-1999.10.06-11.34.39--rmw#rwa-inc.com@lists.tapr.org>  
Importance: Normal  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <NCBBLCALKLCLLFGBMFCMAEOECPAA.rmw@rwa-inc.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> > Wrong on all counts. The intent is to identify the code source and  
> > version of a packet for troubleshooting. With everyone and his brother  
> > now in the game, this is even more important than ever.

> I don't find the software version of the sending station a particularly  
> useful protocol construct, but I suspect that this reflects differences  
> in protocol implementation philosophies. I think some examples of how  
> you have used this field would be enlightening.

and

> I started crafting a much longer reply, but my short answer is that  
> I believe that it is the responsibility of the receiver to process  
> \_any\_ malformed packet without blowing up. I believe that this is the  
> only approach that will work in the evolving APRS environment,  
> particularly given:

Being a recent addition to the fold of "APRS Developers", I can assure you that it's every author's intent to parse what packets they can, and discard the rest without any undue explosions. There is quite a bit of code in APRS/CE that does range-checking and other "sanity" checks on values within packets before handing them off for further processing.

I think the "version-in-the-TOCALL" concept does two things:

(1) If you happen to find a malformed packet (whether or not it blows up a given receiving station is a totally separate matter), it allows you to determine the platform and version of the software that is sending said packet. Who cares? The author, for sure! If someone gets a bogus packet with a TOCALL of APC101, they can send me an e-mail and a copy of the packet. Then I have a record and can start tracking it down if I am not aware of the problem already. If we all used a generic TOCALL of "APRS", or something like it, then the operator of the station has to be contacted and queried about what version of APRS they're using, on what platform, etc.

(2) It allows the receiver to know what the capabilities of the sending station are. Does the station have messaging capability? Will it understand this packet I'm about to send with a protocol change in it? Does it have a small screen, so I may want to break this message up into shorter segments? (Especially true with the D7, which sends messages and ACKs to APK001 by default. Win- & MacAPRS take advantage of this, breaking a

message up into much shorter lines when sending to a D7.)

I think these types of things drove the design of the protocol, not a desire to have absolute control over who writes what software.

73

-Rob

KZ5RW

APRS/CE - APRSô for Windows CE handhelds... coming soon to an  
ftp.tapr.org near you!

-----Original Message-----

From: bounce-aprsspec-11697@lists.tapr.org

[mailto:bounce-aprsspec-11697@lists.tapr.org]On Behalf Of Tim Salo

Sent: Wednesday, October 06, 1999 12:23 PM

To: APRS Spec Discussion List

Subject: [aprsspec] Re: APRS Version Designators

> Date: Tue, 5 Oct 1999 18:39:45 -0400 (EDT)

> From: Bob Bruninga <bruninga@nadm.navy.mil>

> Subject: [aprsspec] Re: APRS Version Designators

>

> Wrong on all counts. The intent is to identify the code source and

> version of a packet for troubleshooting. With everyone and his brother

> now in the game, this is even more important than ever.

Oh... (although appearances are important in this matter).

I don't find the software version of the sending station a particularly useful protocol construct, but I suspect that this reflects differences in protocol implementation philosophies. I think some examples of how you have used this field would be enlightening.

I started crafting a much longer reply, but my short answer is that I believe that it is the responsibility of the receiver to process any malformed packet without blowing up. I believe that this is the only approach that will work in the evolving APRS environment, particularly given:

<SNIP>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 13:23:50 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id NAA10818  
for <wd5ivd@tappr.org>; Wed, 6 Oct 1999 13:18:49 -0500 (CDT)  
Message-ID: <LYR11594-43660-1999.10.06-13.30.14--wd5ivd#tappr.org@lists.tappr.org>  
From: "Neil Johnson" <njohnson@interl.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: APRS Objects  
Date: Wed, 6 Oct 1999 13:18:23 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <006201bf1027\$2e7742c0\$51da1bce@default>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Here's the nickel tour of public cryptography.

The NWS generates two keys that are mathematically related. Anything encrypted with one key can ONLY be decrypted by the other key (and vice versa). Due to the algorithm it's almost impossible to determine one key from the other (with out spending thousands of years of computer time).

The NWS keeps one key private and publishes the other. This published key is incorporated into the APRS programs.

When the NWS sends a warning via APRS, They pass the message through another function called a cryptographic hash. This generates a hash code which is similar to checksum, but due to the algorithm used can be guaranteed to be unique to the message.

They then encrypt the hash code with the private key, append it to the message and send it out to APRS.

The receiving program, if it wants to confirm the message, decrypts the hash code using the published key.

(Confirming that it is from the NWS because it could only have been encrypted with their private key). Runs the message through the same hash

function and compares this hash code to the decrypted one. If they match, The program knows 1) The message definitely came from the NWS, and 2) it was not altered in anyway.

A program that didn't care about confirming could just ignore the encrypted hash code.

-Neil Johnson

-----Original Message-----

From: Dave VanHorn <dvanhorn@cedar.net>  
To: APRS Spec Discussion List <aprsspec@lists.tapir.org>  
Date: Wednesday, October 06, 1999 12:55 PM  
Subject: [aprsspec] Re: APRS Objects

>  
>> Gosh. A ring on my finger can do this  
>> (<http://www.ibutton.com/ibuttons/index.html>). So can a card in my wallet  
>> (<http://java.sun.com/products/javacard/index.html>)  
>  
>But we will also be busy doing OTHER things, like APRS.  
>  
>  
>> > All we NEED here is authentication, not encryption.  
>>  
>> I am suggesting authentication based on cryptography, not encryption.  
>> The APRS message would still be in clear text; it would merely have  
>> some junk (a digital signature) appended to the end.  
>  
>I get the difference, and I wasn't thinking you meant encrypted packets.  
>The "junk" still has to be generated for each packet.  
>If the "junk" is the same on each packet, then joe nasty can just copy my  
>"junk".  
>Still, all we need is to authenticate the sender.  
>  
>  
>  
>---  
>You are currently subscribed to aprsspec as: njohnson@interl.net  
>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapir.org  
>

---

You are currently subscribed to aprsspec as: wd5ivd@tapir.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapir.org

From ???@??? Wed Oct 06 13:38:46 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id NAA11337  
for <wd5ivd@tappr.org>; Wed, 6 Oct 1999 13:35:11 -0500 (CDT)  
Message-ID: <LYR11594-43661-1999.10.06-13.46.40--wd5ivd#tappr.org@lists.tappr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
References: <006201bf1027\$2e7742c0\$51da1bce@default>  
Subject: [aprsspec] Re: APRS Objects  
Date: Wed, 6 Oct 1999 13:34:27 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <026a01bf1029\$6c1237a0\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

> The NWS keeps one key private and publishes the other. This published key  
is  
> incorporated into the APRS programs.

Is the intent that ONLY NWS be able to use this? That does simplify things  
a little.

For ex, I would never have to generate this mess, only untangle it.

> The receiving program, if it wants to confirm the message, decrypts the  
hash  
> code using the published key.

And this takes how long in an 8 bit machine, and how much ram?

Could this not be solved by using a mechanism like the registration key in  
WAPRS?

Just prevent packets "from NWS" from being sent unless the software is  
unlocked.

I can incorporate that as well in a microcontroller based device, in that I  
can disallow that field to equal a particular string, unless I (the author)

know the user is valid, and I provide him an unlock code keyed to his callsign. Now there is no global dependency on a particular encryption mechanism. The unlock code won't work for anyone else unless they want to pirate someone's call, which is of course illegal, and I think we'd see some enforcement action from the FCC.

What I'm asking for is some consideration of platforms that don't have "put in another 32meg of ram" as an option. I know it's easy to solve the problem in big machines, but that leaves little machines out in the cold.

> A program that didn't care about confirming could just ignore the encrypted  
> hash code.

Given.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 16:44:28 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA16923  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 16:38:11 -0500 (CDT)  
Date: Wed, 6 Oct 1999 17:38:05 -0400 (EDT)  
From: Jeff King <jeff@home.nuge.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11601-43656-1999.10.06-13.07.21--  
jeff#aerodata.net@lists.tapr.org>  
Message-ID: <LYR11594-43682-1999.10.06-16.49.41--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.LNX.3.96.991006173518.24959A-1000000@home.nuge.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

On Wed, 6 Oct 1999, Dave VanHorn wrote:

```
> > I am suggesting authentication based on cryptography, not encryption.
> > The APRS message would still be in clear text; it would merely have
> > some junk (a digital signature) appended to the end.
>
> I get the difference, and I wasn't thinking you meant encrypted packets.
> The "junk" still has to be generated for each packet.
> If the "junk" is the same on each packet, then joe nasty can just copy my
> "junk".
```

Look at rolling codes as used in RKE devices. MicroChip has a line of parts that can do this and some ap notes on the subject. These signatures can be sent in the open as they are different on every transmission.

-Jeff

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 18:43:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA19974  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 18:36:04 -0500 (CDT)  
Message-ID: <LYR11594-43694-1999.10.06-18.47.33--wd5ivd#tapr.org@lists.tapr.org>  
X-Originating-IP: [146.152.63.37]  
From: "Douglas Quagliana" <dquagliana@hotmail.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] BNF and APRS Protocol Documentation  
Date: Wed, 06 Oct 1999 16:35:48 PDT  
Mime-Version: 1.0  
Content-Type: text/plain; format=flowed  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <19991006233549.55454.qmail@hotmail.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Gang,



Re: the APRS protocol documentation 1.0 Draft

Well, actually, I was really hoping for a BNF diagram of the APRS protocol. I'm willing to write it.

Backus-Naur Form is a formal meta-language commonly used to diagram all possible constructs in a programming language, command language, or a protocol.

A portion of the BNF for APRS might look something like this (this is just off the top of my head...)

```
<APRS-packet> ::= <Packet-path> ":" <Data-part> <EndOfLine>
<Packet-path> ::= <From-Call> ">" <To-Call> [ <Digilist> ]
<Digilist>      ::= [ "," <Digipeater> ] <Digilist>
<To-Call>       ::= "APRS" | "AP" <APIIdentifier> <Version> | "GPS"
<Data-part>     ::= <GridSquare> | <WeatherData> | <GPSSString>
<GPSSString>    ::= <GPRMCString> | <GPGGAStrng> | <GPGLLString>
<GPGLLString>   ::= "$GPGLL" "," <Latitude> "," <NorthSouth> ","
                    <Longitude> "," <EastWest> "," <Checksum>
```

and so on...

where "x" is the presence of the thing x,  
"[ something ]" indicates an optional occurrence of  
the thing /something/ and "this | that" indicates the presence  
of either the thing /this/ or the presence of the thing /that/.

Obviously the real BNF for the APRS protocol will be somewhat longer and contain many more fields, but this should give you a feel for the notation and hopefully why I think it is important to have something like a BNF diagram for the whole protocol.

If I was an APRS developer and I had to write a parser for APRS packets I'd *really* want to have a BNF diagram to follow. This ensures that you know all the possibilities of which "things" can occur and in what different order(s) they are allowed. It guides everyone so that they're all following the exact same "language" and provides some structure for your source code to follow. It also lets you easily construct a set of test cases to cover the whole protocol as documented. You can use the BNF to immediately determine whether or not a particular packet is conforming to the specs. It's much more formal and much less ambiguous than just saying

that the following are some valid examples.

This will be much more important if we suddenly have many new APRS authors.

I think a BNF for the APRS protocol would be a very good thing to have.

I'm willing to write up the BNF for the APRS protocol.

Just my \$0.02,

Douglas KA2UPW  
dquagliana@hotmail.com

-----  
Get Your Private, Free Email at <http://www.hotmail.com>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Wed Oct 06 19:28:43 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id TAA21325  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 19:26:50 -0500 (CDT)  
Message-ID: <LYR11594-43700-1999.10.06-19.38.19--wd5ivd#tapr.org@lists.tapr.org>  
Date: Wed, 06 Oct 1999 20:26:42 -0400  
From: amartin@interactive.net (Art Martin)  
X-Accept-Language: en,ja,de-DE  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: BNF and APRS Protocol Documentation  
References: <LYR11676-43694-1999.10.06-18.47.33--  
amartin#interactive.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <37FBE8C2.AC4AECF6@interactive.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Thanks for reminding me, Doug...

As I recall, the rules for the Packet BBS programs were also defined in BNF-like format. A very good suggestion for the protocol description. I hope the Working Group will agree.

TNX and 73 de Art

--

Douglas Quagliana wrote:

```
>
> Gang,
>
> Re: the APRS protocol documentation 1.0 Draft
>
> Well, actually, I was really hoping for a BNF diagram of the
> APRS protocol. I'm willing to write it.
>
> Backus-Naur Form is a formal meta-language commonly used
> to diagram all possible constructs in a programming language,
> command language, or a protocol.
>
> A portion of the BNF for APRS might look something like this
> (this is just off the top of my head...)
>
> <APRS-packet> ::= <Packet-path> ":" <Data-part> <EndOfLine>
> <Packet-path> ::= <From-Call> ">" <To-Call> [ <Digilist> ]
> <Digilist> ::= [ ",", <Digipeater> ] <Digilist>
> <To-Call> ::= "APRS" | "AP" <APIdentifier> <Version> | "GPS"
> <Data-part> ::= <GridSquare> | <WeatherData> | <GPSSString>
> <GPSSString> ::= <GPRMCString> | <GPGGAStrng> | <GPGLLString>
> <GPGLLString> ::= "$GPGLL" ",", <Latitude> ",", <NorthSouth> ",",
>                      <Longitude> ",", <EastWest> ",", <Checksum>
> and so on...
>
> where "x" is the presence of the thing x,
> "[ something ]" indicates an optional occurrence of
> the thing /something/ and "this | that" indicates the presence
> of either the thing /this/ or the presence of the thing /that/.
>
> Obviously the real BNF for the APRS protocol will be
> somewhat longer and contain many more fields, but this
> should give you a feel for the notation and hopefully
> why I think it is important to have something like a
> BNF diagram for the whole protocol.
>
> If I was an APRS developer and I had to write a
> parser for APRS packets I'd *really* want to have
```

> a BNF diagram to follow. This ensures that you  
> know all the possibilities of which "things" can  
> occur and in what different order(s) they are  
> allowed. It guides everyone so that they're  
> all following the exact same "language" and  
> provides some structure for your source code  
> to follow. It also lets you easily construct a  
> set of test cases to cover the whole protocol  
> as documented. You can use the BNF to  
> immediately determine whether or not a particular  
> packet is conforming to the specs. It's much  
> more formal and much less ambiguous than just saying  
> that the following are some valid examples.  
>  
> This will be much more important if we suddenly  
> have many new APRS authors.  
>  
> I think a BNF for the APRS protocol would be  
> a very good thing to have.  
>  
> I'm willing to write up the BNF for the APRS protocol.  
>  
> Just my \$0.02,  
>  
> Douglas KA2UPW  
> dquagliana@hotmail.com  
>  
> -----  
> Get Your Private, Free Email at <http://www.hotmail.com>  
>  
> ---  
> You are currently subscribed to aprsspec as: amartin@interactive.net  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

--  
Art Martin N2QAE  
Long Valley, Morris County, NJ, USA  
<mailto:amartin@interactive.net>  
Find me at: <http://map.aprs.net:8000/n2qae>  
--

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Wed Oct 06 19:43:39 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id TAA21472

for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 19:30:25 -0500 (CDT)  
Message-Id: <LYR11594-43702-1999.10.06-19.41.55--wd5ivd#tapr.org@lists.tapr.org>  
X-Sender: kd4rdb@mail.netzero.com  
Date: Wed, 06 Oct 1999 20:29:55 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Wes Johnston <kd4rdb@netzero.com>  
Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11698-43655-1999.10.06-12.51.05--kd4rdb#netzero.com@lists.tapr.org>  
References: <LYR11595-43652-1999.10.06-12.21.45--salo#networkcs.com@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="=====87113810==\_ALT"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <4.2.0.58.19991006201848.009f42e0@mail.netzero.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

<x-html><!x-stuff-for-pete base="" src="" id="0"><html>  
Guys... all we need is a 2nd "type" of object.... one that all  
APRS versions will recognize as an object and that ONLY skywarn  
authorized copies of APRS can create....&nbsp; from page 9 in THE  
book....<br>  
<br>  
<font face="Helvetica, Helvetica">OBJECT\_\_\*DDHHMMzDDMM.hhN/DDDMM.hhW\$CSE/SPD/  
comments...<br>  
</font>This is what a standard everyday object looks like... Now if we  
change the semicolon in the front to an asterix..<br>  
<font face="Helvetica, Helvetica">\*OBJECT\_\_\*DDHHMMzDDMM.hhN/DDDMM.hhW\$CSE/SPD/  
comments...<br>  
</font>Now we have an "official" object.&nbsp; BTW, I chose the  
asterix because as far as I know, it's not used in any aprs  
packets.&nbsp; If i'm wrong and it is already used, please select another  
symbol...<br>  
<br>  
We could get mired down in public / private keys and all sorts of  
authorizations... but we already have a system in place... the  
&quot;secret decoder ring&quot; of skywarn.&nbsp; Let's just add a new  
category of object to the list of things that skywarn can do that normal  
users can't.&nbsp; When you get right down to it, a hacker could create a  
skywarn county warning by hand.&nbsp; So what we have is a case where a  
person could easily study our system and hack it.&nbsp; Most newbies that

would create an object don't read the manual, and once they do and understand, they are less apt to cause problems anyway.&nbsp; I just want to make it inconvenient for newbies to make objects... and to allow me to weed out those objects.<br>

<br>

Maybe we need a BUDLIST option for objects.... Don't show any objects from station K9PUP or only show objects from k4sky.... i dunno..<br>

<br>

Wes<br>

<br>

At 12:39 PM 10/6/99 -0500, Tim Salo wrote:<br>

<blockquote type=cite cite>&gt; From: &quot;Dave VanHorn&quot;

&lt;dvanhorn@cedar.net&gt;<br>

&gt; To: &quot;APRS Spec Discussion List&quot;

&lt;aprsspec@lists.tapir.org&gt;<br>

&gt; Subject: [aprsspec] Re: APRS Objects<br>

&gt; Date: Wed, 6 Oct 1999 12:09:34 -0500<br>

&gt; <br>

&gt; &gt; I recommend a solution based on public key cryptography and digital<br>

&gt; &gt; signatures.&nbsp; The algorithms are public, and I believe that quite a bit<br>

&gt; &gt; of code is available for the algorithms.&nbsp; The missing piece is the<br>

&gt; &gt; public key of the entity signing the messages.&nbsp; This could be received<br>

&gt; &gt; from a trusted online source, such as an APRServe (but, you might want<br>

&gt; &gt; to authenticate the identity of the APRServe...) or a set of public<br>

&gt; &gt; keys could be distributed with APRS software or via the Web.<br>

&gt; <br>

&gt; This is a &quot;big computer&quot; job.&nbsp; I admit my bias here, I'd like to stay with<br>

&gt; what can reasonably be achieved in a microcontroller.<br>

<br>

Gosh.&nbsp; A ring on my finger can do this<br>

(<a href="http://www.ibutton.com/ibuttons/index.html).%A0"

eudora="autourl">http://www.ibutton.com/ibuttons/index.html).

</a> So can a card in my wallet<br>

(<a href="http://java.sun.com/products/javacard/index.html"

eudora="autourl">http://java.sun.com/products/javacard/index.html</a><br>

<br>

&gt; All we NEED here is authentication, not encryption.<br>

<br>

I am suggesting authentication based on cryptography, not encryption.<br>

The APRS message would still be in clear text; it would merely have<br>  
some junk (a digital signature) appended to the end.<br>

<br>

-tjs<br>

<br>

---<br>

You are currently subscribed to aprsspec as: kd4rdb@netzero.com<br>

To unsubscribe send a blank email to  
leave-aprsspec-11594T@lists.tappr.org<br>

</blockquote><br>

<div>Wes</div>

<div>kd4rdb@usa.net</div>

Stupidity should be painful

</html>

</x-html>

From ???@??? Wed Oct 06 20:14:32 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.11) with SMTP id TAA22076

for <wd5ivd@tappr.org>; Wed, 6 Oct 1999 19:59:16 -0500 (CDT)

From: smorris@mindspring.com

Message-ID: <LYR11594-43707-1999.10.06-20.10.48--wd5ivd#tappr.org@lists.tappr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

References: <LYR11686-43694-1999.10.06-18.47.33--

smorris@mindspring.com@lists.tappr.org>

Subject: [aprsspec] Re: BNF and APRS Protocol Documentation

Date: Wed, 6 Oct 1999 21:00:57 -0400

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <003e01bf105f\$6a5d4c20\$0501a8c0@smorris>

Sender: bounce-aprsspec-11594@lists.tappr.org

Precedence: bulk

Status:

Actually what would be even better is the blcok diagram that you see other  
network protocols formatted in, Take a look at some network protocol books,  
that use a line diagram (blocks end to end) with the length, what the  
bits/bytes are for, etc.

Scott

----- Original Message -----

From: Douglas Quagliana <dquagliana@hotmail.com>

To: APRS Spec Discussion List <aprsspec@lists.tapir.org>

Sent: Wednesday, October 06, 1999 7:35 PM

Subject: [aprsspec] BNF and APRS Protocol Documentation

> Gang,

>

> Re: the APRS protocol documentation 1.0 Draft

>

> Well, actually, I was really hoping for a BNF diagram of the

> APRS protocol. I'm willing to write it.

>

> Backus-Naur Form is a formal meta-language commonly used

> to diagram all possible constructs in a programming language,

> command language, or a protocol.

>

> A portion of the BNF for APRS might look something like this

> (this is just off the top of my head...)

>

> <APRS-packet> ::= <Packet-path> ":" <Data-part> <EndOfLine>

> <Packet-path> ::= <From-Call> ">" <To-Call> [ <Digilist> ]

> <Digilist> ::= [ ",", <Digipeater> ] <Digilist>

> <To-Call> ::= "APRS" | "AP" <APIIdentifier> <Version> | "GPS"

> <Data-part> ::= <GridSquare> | <WeatherData> | <GPSSString>

> <GPSSString> ::= <GPRMCString> | <GPGGAStrng> | <GPGLLString>

> <GPGLLString> ::= "\$GPGLL" ",", <Latitude> ",", <NorthSouth> ",",

> <Longitude> ",", <EastWest> ",", <Checksum>

> and so on...

>

> where "x" is the presence of the thing x,

> "[ something ]" indicates an optional occurrence of

> the thing /something/ and "this | that" indicates the presence

> of either the thing /this/ or the presence of the thing /that/.

>

> Obviously the real BNF for the APRS protocol will be

> somewhat longer and contain many more fields, but this

> should give you a feel for the notation and hopefully

> why I think it is important to have something like a

> BNF diagram for the whole protocol.

>

> If I was an APRS developer and I had to write a

> parser for APRS packets I'd \*really\* want to have

> a BNF diagram to follow. This ensures that you

> know all the possibilities of which "things" can

> occur and in what different order(s) they are



> allowed. It guides everyone so that they're  
> all following the exact same "language" and  
> provides some structure for your source code  
> to follow. It also lets you easily construct a  
> set of test cases to cover the whole protocol  
> as documented. You can use the BNF to  
> immediately determine whether or not a particular  
> packet is conforming to the specs. It's much  
> more formal and much less ambiguous than just saying  
> that the following are some valid examples.  
>  
> This will be much more important if we suddenly  
> have many new APRS authors.  
>  
> I think a BNF for the APRS protocol would be  
> a very good thing to have.  
>  
> I'm willing to write up the BNF for the APRS protocol.  
>  
> Just my \$0.02,  
>  
> Douglas KA2UPW  
> dquagliana@hotmail.com  
>  
> -----  
> Get Your Private, Free Email at <http://www.hotmail.com>  
>  
> ---  
> You are currently subscribed to aprsspec as: smorris@mindspring.com  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org  
>

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 20:43:46 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA23130  
for <wd5ivd@tapr.org>; Wed, 6 Oct 1999 20:42:39 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-43715-1999.10.06-20.54.14--wd5ivd#tapr.org@lists.tapr.org>  
Date: Wed, 6 Oct 1999 21:41:13 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] BNF vs Block vs other  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205507b421a813557f@[165.230.139.231]>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

For the moment, the protocol will NOT be in BNF!!!

I thought the idea was to make a document that the 'AVERAGE' person could read it, not just people with a degree in Computer Science.

I agree with the block formats for some stuff, but instead of being PICKY, lets make sure it gets COMPLETE.. and is CLEAR (no ambiguities)

The comments about stuff that was either missing, incomplete or unclear have been very good, and I will be implementing them into a new version in the near future. (End of October or earlier, I hope).

I -WAS- happy with the way stuff was going on on this SIG, but I don't want to be 'picked' to death just because one person wants to see it done THEIR way and somebody else wants it done differently.

It is going to be a reasonable amount of work going thru all of the email and making sure I have EVERY update/change etc included. I already have approaching 100 messages about the SPEC..

Some people have been making suggestions about NEW stuff, this is all fine and good, but it will slow the process down. If you want to make suggestions/comments about new things, please either wait, OR put  
NEW SUGGESTION in the subject so it can be put off to the side until we get the CURRENT stuff fully documented.

Keith Sproul  
Keith Sproul 732 445-3695 Office  
Student Housing Network Coordinator 732 445-2968 Fax  
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
http://dorm.rutgers.edu/~ksproul/ WU2Z

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 06 21:58:28 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id VAA25322  
for <wd5ivd@tappr.org>; Wed, 6 Oct 1999 21:56:34 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Wed, 6 Oct 1999 22:56:19 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: BNF and APRS Protocol Documentation  
In-Reply-To: <LYR11586-43694-1999.10.06-18.47.33--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11594-43725-1999.10.06-22.08.05--wd5ivd@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9910062254270.22488-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

By the way, My lack of comment on the protocol spec is simply because of unbelievable demands on my time from work, DCC, AMSAT conference, Kenwood, Schhool, and new job. In a week or two I hope to roll up my sleeves and dig in... :-) Leaving for AMSAT conf in 8 hours...

de WB4APR, Bob

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Wed Oct 06 23:42:53 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id XAA00152  
for <wd5ivd@tappr.org>; Wed, 6 Oct 1999 23:40:43 -0500 (CDT)  
Date: Wed, 6 Oct 1999 23:40:32 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-43742-1999.10.06-23.52.19--wd5ivd@tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: BNF and APRS Protocol Documentation  
In-Reply-To: <LYR11595-43694-1999.10.06-18.47.33--

salon@networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyriss Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199910070440.XAA97099@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

> From: "Douglas Quagliana" <dquagliana@hotmail.com>  
> Subject: [aprsspec] BNF and APRS Protocol Documentation  
> Date: Wed, 06 Oct 1999 16:35:48 PDT  
> [...]  
> Well, actually, I was really hoping for a BNF diagram of the  
> APRS protocol. I'm willing to write it.  
> [...]

You may wish to look at Augmented BNF (RFC 2234, "Augmented BNF for Syntax Specifications: ABNF, <ftp://ftp.isi.edu/in-notes/rfc2234.txt>).

You may find that the sorts of things that you want to specify for an APRS syntax are a bit easier in ABNF. Some might also find the syntax of the rules a bit less intimidating.

I believe that the process of developing an ABNF specification for APRS would be a useful exercise. I suspect that the process will help identify ambiguities in the protocol specification and perhaps even in the protocol itself.

(For what it is worth, somewhere I have ABNF specifications of the TNC-2 and Timewave/AEA MONitor command output formats. About the only interesting thing I learned it that the data stream from the APRSServe contains some stuff which isn't exactly either format, (rather, sort of a mush of both formats).)

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Thu Oct 07 06:10:57 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id GAA22604  
for <wd5ivd@tappr.org>; Thu, 7 Oct 1999 06:02:14 -0500 (CDT)  
Message-ID: <LYR11594-43757-1999.10.07-06.13.43--wd5ivd@tappr.org@lists.tappr.org>

Date: Thu, 07 Oct 1999 07:00:52 -0400  
From: PropNET <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re-focus [was:BNF vs Block vs other]  
References: <LYR11610-43715-1999.10.06-20.54.14--  
propnet#greeceny.com@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <37FC7D64.589128B4@greeceny.com>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Focus...Daniel-san. :o)

Keith is right. Let's not forget in our haste that we are focused on only one thing now: clearly documenting (for the masses) what presently *\*is\** -- not what would be nice for the future (like the direction of the "objects thread").

There will be plenty of time to discuss both enhancements and reductions to the protocol after we have our baseline publicly defined (in language even eeeeeediods like me can understand).

Thanks for the reminder, Keith.

Ev, W2EV

Keith Sproul wrote:

> For the moment, the protocol will NOT be in BNF!!!  
>  
> I thought the idea was to make a document that the 'AVERAGE' person  
> could read it, not just people with a degree in Computer Science.  
>  
> I agree with the block formats for some stuff, but instead of being  
> PICKY, lets make sure it gets COMPLETE.. and is CLEAR (no ambiguities)  
>  
> The comments about stuff that was either missing, incomplete or  
> unclear have been very good, and I will be implementing them into a

> new version in the near future. (End of October or earlier, I hope).  
>  
> I -WAS- happy with the way stuff was going on on this SIG, but I  
> don't want to be 'picked' to death just because one person wants to  
> see it done THEIR way and somebody else wants it done differently.  
>  
> It is going to be a reasonable amount of work going thru all of the  
> email and making sure I have EVERY update/change etc included. I  
> already have approaching 100 messages about the SPEC..  
>  
> Some people have been making suggestions about NEW stuff, this is all  
> fine and good, but it will slow the process down. If you want to  
> make suggestions/comments about new things, please either wait, OR  
> put  
> NEW SUGGESTION in the subject so it can be put off to the side until  
> we get the CURRENT stuff fully documented.  
>  
> Keith Sproul  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: propnet@greeceny.com  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

--  
PropNET: an automated network, designed to  
study propagation anomalies. Intreagued?  
<http://www.RochesterNY.org/PropNET>

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Thu Oct 07 15:25:12 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id PAA07442  
for <wd5ivd@tappr.org>; Thu, 7 Oct 1999 15:14:18 -0500 (CDT)  
Message-ID: <LYR11594-43822-1999.10.07-15.25.50--wd5ivd#tappr.org@lists.tappr.org>  
From: "Neil Johnson" <njohnson@interl.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] RE: APRS Objects  
Date: Wed, 6 Oct 1999 21:16:43 -0500  
MIME-Version: 1.0

Content-Type: text/plain  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
X-MIME-Autoconverted: from 8bit to quoted-printable by mail.interl.net id PAA00063  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <000601bf1100\$802a6f00\$51da1bce@default>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Dave,

I just wanted to explain public-key cryptography. I find it fascinating.

Dave, I agree that adding cryptographic code to APRS would add a lot of complexity. I couldn't imagine trying to program those algorithms in PIC assembler.

In addition, the U.S. Government considers strong encryption "munitions" just like atomic and biological weapon components. They have rules banning the export of software containing strong encryption to other countries (you can, however, publish the code in a book and export it because in that form it is protected by the 1st amendment, go figure). The rules are unclear about using it only for authentication.

I think this is a good time to remind everyone that what we are supposed to be doing is finding errors, omissions, and things to be clarified in the proposed protocol spec, NOT attempting to add new functionality at this time.

In the tired cliché of my information technology (IT) friends we are trying to specify the protocol "AS-IS" and not "TO-BE".

I think a BNF description of the protocol would be a good idea, too.

I'll go back and lurk in my corner now.

Neil Johnson  
njohnson@interl.net  
<http://www.interl.net/~njohnson>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 07 16:24:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id QAA08997  
for <wd5ivd@tapr.org>; Thu, 7 Oct 1999 16:10:35 -0500 (CDT)  
From: "Michael J. Allison / KN6ZT" <mallison@livingston.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] APRS Protocol 1.0 (Draft) comments  
Date: Thu, 7 Oct 1999 14:12:46 -0700  
Message-ID: <LYR11594-43830-1999.10.07-16.22.11--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
Importance: Normal  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <000a01bf1108\$b3e4f380\$a820c695@livingston.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Bob, Mark, and Keith

Thanks for the protocol document, it is informative and  
I've been waiting to see something like for some time.

I am here to add my comments the discussion. Please be  
aware that I understand how much effort it is to write  
a specification, so don't take the comments as personal  
attacks. In fact they are meant to help.

I have sections of comments. 1) is current version of the  
draft, and 2) general comments on the structure of the  
document.

----- 1 current comments -----

Page 1. "This draft is for comment on the CURRENT protocol ONLY".



I don't know how long this document is intended to stick around, but "CURRENT" is ambiguous. Perhaps a date would be better?

Page 1. Include a notice where readers can check for newer versions of the document. Copies of documents have a life of their own. Someone may pick up an old version and assume it is the newest version (or not be able to find a newer version). Put the URL for the appropriate TAPR page somewhere here (or your website, or what ever).

Page 1. I notice that the document is copyrighted. Please include a statement regarding restrictions of the use of the document. Copyright prevents me from stealing the document and representing it as my own, but does it limit my use of the protocol? What can I write, or not if I refer to the document?

Page 1. You might want to include e-mail contact information for each of you.

Page 3. "Destinations" - the "xxx" for the version number is unclear. Must it be all numeric or are other characters allowed?

Page 4. "Third Part Format". The format character "}" should be quoted in the text. In fact all special characters should be quoted throughout the document. For experimental, what happens when two people in the same area are using Z100? Can I include perhaps the suffix of my call sign to disambiguate? Perhaps I might use something like "Z6ZT" (i.e. Z + KN6ZT)

Page 4. "Time Formats" - "recently only zulu formats are transmitted on the air". This is a historical fact, but what does the protocol now expect? For instance a stronger statement such as "only zulu formats are to be transmitted on the air".

Page 8. "Weather Report" - "The first character indicates what version of APRS". First character of what part of the string? How is version indicated here? "W" means windows, but doesn't tell me if it is WinAPRS 3.2 or 2.0. Should there be a character for manually entered weather information? "See WX.TXT" - where is the file "WX.TXT?" This document needs to be complete to describe the whole protocol. At least provide a reference on the first page, like you did for the other documents.

Page 8. "Mic-Encoder" - An example and packet break out is needed here. I can't tell how things are encoded from the definition, and certainly don't know how to decode it.

Page 12. Queries - "?PATH?" - "not implemented yet" is probably

misleading. You are specifying the protocol, not a particular implementation's version of the specification.

Page 13. "First character definitions" - Please include the hexadecimal character values. This makes it unambiguous as to what character of which you speak.

Page 14. "Definitions" - There are many APRS specific terms in the text that should be included here. One example is "net cycle". Net cycle is defined in the design philosophy section. All definitions in the same place make it easier for a reader to find what he is looking for.

Page 15. Item 4. - "APRSdos automatically adjusts its net-cycle..." Instead of calling out the behavior of a conforming implementation it is better to specify how an implementation must deal with this situation. (If that happens to be how APRSdos is written, that's great).

Page 17. "Appendix" change "not used" and "avail" to "reserved for future use" so you have explicitly saved something for the future. This will prevent other developers from usurping these.

Page ????. I think I have missed the telemetry format?

----- 2 General structural comments -----

I understand that the purpose of this document is to a) document the protocol and b) provide a document so that others can use it to develop new tools. Given this I have some comments on the general organization of the document. Again, please don't take these as attacks but rather a bit of my twenty years experience reading and writing software specifications. I believe you are trying to write a document that will be valuable for many years to come, and as such the effort you expend now really worth it.

\* Generally items like design philosophy and definition sections come first. This helps the reader get a "feel for the terrain" before jumping into the nitty gritty details. Moving them up front will improve the overall flow of the document very much.

\* There is a great deal of information in the document. I had a hard time wading through it because of organization of like related topics was not apparent to me. A more "outline" type of form will make it very clear to new (and returning) readers how things are related.

For instance something like:  
Design Philosophy

Definitions

Notes and restrictions on use of this document

Implementation

- Basic AX.25 use - UI frames, etc.

- Retries

- Orig call sign use

- Dest Call sign use

- etc.

APRS Message types

- Position

  - Message format described

  - Position ambiguity

  - PHG

  - etc.

- Weather

  - Message format described

  - Limitations derived from different weather stations

- Telemetry

Don't take this example literally, it is meant to illustrate a technique, not what you need to do since only you can figure that out.

\* For each description of a message type, include the example in that section. It is much easier to relate an example to the description when they are on the same page. The appendix is too far away (too much page flipping). Additionally for complicated message types and schematic such as that included in the "Power-Height-Gain" format is very useful. The tabular format is fine, but when there are too many elements in a message it is difficult to track between fields and their descriptions. This is a human cognitive issue. Weather report is complicated enough that it could use it.

\* To BNF or not to BNF. I saw an earlier suggestion about adding a BNF format. This is an excellent idea. Another suggestion about using an AX.25 style block notation was also floated. This too is a good idea. When defining protocols such as this you need both diagrams and text. Something that are hard or impossible to explain one way may be described with ease in the other way.

\* Be explicit about what must be interpreted and how. This is useful for determining if an author has written a conforming implementation of the protocol.

\* You should have section discussing, in general, the units used for measurements and values. Because this is pervasive

throughout the protocol it is important to be explicit with this?  
For instance, can a European station build packets in Metric?  
(I think the answer is "no", but if my only introduction to  
the protocol was in this document, I might make a mistake).

\* I understand you are trying to write the document so that "average"  
people can understand it. This is great and means you don't need to  
use 25 cent words like "state machine" or "isomorphic decomposition".  
I believe that it is very important to be complete and very explicit  
when you are shooting for a general audience. If you were writing  
only for software engineers you might be able to count on them  
to read between the lines. Since you are writing for people without  
the experience of those who practice the art of engineering, you  
need to be more explicit and more detailed (if you have any hope  
of them making use of the protocol specification).

\* In the DISPLAY Symbols document, it would be most useful  
to have the actual icons co-located with the codes. You might  
include Dos, Win/Mac, SA, etc. I realize this document came from  
the DOS package and was converted to PDF. It will also look better  
if both documents are formatted in the same style.

---- eom ----

Well, I'm sure that is enough for now. I look forward to the  
next iteration. Thanks for the hard work it is appreciated.  
If you would like any help with this project, please feel  
free to call on me.

73,  
mike, kn6zt

m/j/a

Michael J. Allison  
Manager, Network Diagnostics  
Access Networks  
Lucent Technologies

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Fri Oct 08 11:49:41 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id LAA26649  
for <wd5ivd@tapr.org>; Fri, 8 Oct 1999 11:37:08 -0500 (CDT)

Message-Id: <LYR11594-44065-1999.10.08-11.48.44--wd5ivd#tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Omission: Internet APRS protocol specification  
Date: Fri, 8 Oct 1999 11:36:33 -0500  
x-sender: sdimse@earthlink.net  
From: Steve Dimse K4HG <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910081636.JAA04041@goose.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

On 10/3/99 4:39 PM Jeff King (jeff@aerodata.net) wrote:

>Understand the slipped dates, however paragraph one and three clearly state  
>the internet protocols (e.g.. APRSSERVE) are to be part of this document.  
>  
APRSeve uses the text output of the TNC, so there is no separate  
protocol to be documented.

Steve K4HG

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Fri Oct 08 12:49:14 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA28528  
for <wd5ivd@tapr.org>; Fri, 8 Oct 1999 12:39:46 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-44070-1999.10.08-12.51.23--wd5ivd#tapr.org@lists.tapr.org>  
Date: Fri, 8 Oct 1999 12:39:56 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Robert Winingham <kc5ejk@onramp.net>  
Subject: [aprsspec] Omissions, Altitude  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <v04220500b423cd0c6ce8@[199.1.153.105]>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

I don't see the word Altitude or ( /A=xxxxxx ) any where in the specification.

>From one of Bob's DOS text files:

-----  
Altitude is obtained from the string "/A=XXXXXX"  
appearing in any POSIT. Altitude is automatically extracted from the  
standard NMEA GGA sentence or from the special \$PGRMZ and \$PMGLB  
sentences, and or it can be manually entered. Note that the field MUST  
be exactly 6 characters with leading zeros.

Examples from HST log files.

-----  
212029 +212029/3936.80N/10433.12W/090/036/A=031000ft

VE2UMS-11 041133 /041534/4536.95N/07438.45W0/A=004000

W3ADO-7 @241613z3859.83N/07639.91W'131/143/A=001200

-----  
I think the default for /A=xxxxxx was to be feet ?

If Kenwood is adding the altitude to the TH-D7a in the next revision  
then how are they sending the altitude in the POSIT packet.

73

----- kc5ejk@onramp.net or kc5ejk@amsat.org -----

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Fri Oct 08 13:04:11 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id NAA28996  
for <wd5ivd@tappr.org>; Fri, 8 Oct 1999 13:02:08 -0500 (CDT)  
Message-ID: <LYR11594-44073-1999.10.08-13.13.40--wd5ivd#tappr.org@lists.tappr.org>  
Date: Fri, 08 Oct 1999 14:02:34 -0400  
From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Omission: Internet APRS protocol specification  
References: <LYR11601-44065-1999.10.08-11.48.44--jeff#aerodata.net@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <37FE31BA.E31BD47D@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Steve Dimse K4HG wrote:

> On 10/3/99 4:39 PM Jeff King (jeff@aerodata.net) wrote:  
>  
> >Understand the slipped dates, however paragraph one and three clearly state  
> >the internet protocols (e.g.. APRSSERVE) are to be part of this document.  
> >  
> APRSServe uses the text output of the TNC, so there is no separate  
> protocol to be documented.

Steve:

The purpose of the APRSSPEC, as I understand it, is so someone presently outside of the present authors can develop APRS compatible display and tracking issues. In other words, to make APRS "Open Source".

As APRSSERVE is a integral part of this, it is imperative that it also be documented, as is spelled out in the agreement that the WG, which you are a member of, came to agreement upon.

While you are correct, it does use the "text output" of the TNC, there are other issues that need to be documented. For example, the tcp/ip port numbers that APRSSERVE uses. Also, the messaging token system you are using. Without this information, it would require reverse engineering of APRSServe to develop a internet capable "APRS display" application. Weren't we trying to get away for this reverse engineering stuff??

Or look at it another way. You need to write a description, so a programmer with the basic understanding of APRS, can successfully write a APRServe application without to many questions to you. Without the tcp port numbers, as well as the RF messaging authentication, I fail to see how this can be done.

Even if you disagree with the above (which, in my opinion, would go against the spirit of the WG agreement), you still need to document that the APRServe "uses the text output of the TNC" in the APRSSPEC document.

Thanks

Jeff

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sat Oct 09 06:23:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id GAA09667  
for <wd5ivd@tapr.org>; Sat, 9 Oct 1999 06:22:06 -0500 (CDT)  
Message-ID: <LYR11594-44141-1999.10.09-06.33.43--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 9 Oct 1999 12:17:40 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Help with MIC-E Protocol Spec please  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <yJFgi0AURy\$3Ewac@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I've been reading through the MIC-E protocol spec (Crosswell/Parsons, Jun97/Dec98), and there are a few things I don't understand:

1. I believe Fig 2 shows the destination address encoding \*as it is transmitted\* That is, a protocol analyzer would display the bits as shown in the diagram. (Correct?)



When the receiving TNC processes this address, it shifts each octet one bit right, and presents the result to the user. [E.g. an ordinary (non-MIC-E) callsign letter "A" (41hex) is transmitted as 82hex, then converted back to 41hex at the receiving end by the TNC].

This leads to my confusion, regarding the ASCII value table containing the "Lat digit, Message/N/W/L Bit = 0" etc columns. I don't understand how this table relates in any way to the transmitted/received data.

To take a real example, the first octet in Fig 2 contains Ar1DDDD0. If message bit A is zero, and DDDD is 0011 (BCD digit "3"), the transmitted bits are 00100110 (=26hex). At the receiving end the TNC shifts the field one bit right, giving 13hex.

My questions, then:

- a. How does 13hex relate to anything in the ASCII value table?
- b. Does the receiving TNC actually output 13hex for (what it thinks is) a callsign character? (It's a non-printing character).
- c. Have I missed the point entirely?

2. What is the BCD encoding for a position ambiguity space character?

3. What are "custom" messages and where is the custom message bit encoded?

4. The spec says the telemetry field and the comment field are optional, and each field follows mandatory data. I assume this means you can only have \*one\* of these fields at a time, not both.

I assume also that the optional comment field cannot start with 60/27/1D hex (otherwise it would be confused with a telemetry field).

Are these assumptions correct?

Can you help?

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sat Oct 09 08:08:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id HAA11191  
for <wd5ivd@tapr.org>; Sat, 9 Oct 1999 07:58:12 -0500 (CDT)  
Date: Sat, 09 Oct 1999 07:57:51 -0500  
From: Bill Diaz <billdiaz@megsinet.net>  
Subject: [aprsspec] RE: Help with MIC-E Protocol Spec please  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Reply-to: "billdiaz@megsinet.net" <billdiaz@megsinet.net>  
Message-id: <LYR11594-44149-1999.10.09-08.09.51--wd5ivd#tapr.org@lists.tapr.org>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"  
Content-transfer-encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01BF122C.00EA9DA0.billdiaz@megsinet.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Ian

The Mic-e documentation is difficult to understand. I hope the following  
clears up some of your questions.

Bill KC9XG

-----Original Message-----

From: Ian Wade [SMTP:ian@dowrmain.demon.co.uk]  
Sent: Saturday, October 09, 1999 6:18 AM  
To: APRS Spec Discussion List

Subject: [aprrspec] Help with MIC-E Protocol Spec please

I've been reading through the MIC-E protocol spec (Crosswell/Parsons, Jun97/Dec98), and there are a few things I don't understand:

1. I believe Fig 2 shows the destination address encoding \*as it is transmitted\* That is, a protocol analyzer would display the bits as shown in the diagram. (Correct?)

This is the structure of the data as provided by the TNC to the serial port.

When the receiving TNC processes this address, it shifts each octet one bit right, and presents the result to the user. [E.g. an ordinary (non-MIC-E) callsign letter "A" (41hex) is transmitted as 82hex, then converted back to 41hex at the receiving end by the TNC].

The TNC does not shift the bits. The application receiving the data would perform any bit shifting and masking.

This leads to my confusion, regarding the ASCII value table containing the "Lat digit, Message/N/W/L Bit = 0" etc columns. I don't understand how this table relates in any way to the transmitted/received data.

The data in figure 2 is provided by the TNC as individual ascii bytes. Each byte has been constructed to ensure that it will be a displayable character. The receiving application must extract the data contained in the individual bytes.

"Lat digit, Message/N/W/L Bit = 0"

This refers to .the Most Significant Bits of bytes 4, 5, and 6.  
If the MSB bit of Nr1MMMM0 is a 1 this represents North Latitude  
If the MSB bit of Wr1HHHH0 is a 1 this represents West Longitude  
If the MSB bit of Lr1HHHH0 is a 1, add 100 degress to longitude

For example : If byte Nr1MMMM0 > 127 then NorthLatitude else SouthLatitude.

To take a real example, the first octet in Fig 2 contains Ar1DDDD0. If message bit A is zero, and DDDD is 0011 (BCD digit "3"), the transmitted bits are 00100110 (=26hex). At the receiving end the TNC shifts the field one bit right, giving 13hex.

My questions, then:

- a. How does 13hex relate to anything in the ASCII value table?
- b. Does the receiving TNC actually output 13hex for (what it thinks is) a callsign character? (It's a non-printing character).

c. Have I missed the point entirely?

The TNC performs no shifting, therefore the application sees 26Hex.

2. What is the BCD encoding for a position ambiguity space character?

Have not seen this (that I know of), but it should be 0.

3. What are "custom" messages and where is the custom message bit encoded?

4. The spec says the telemetry field and the comment field are optional, and each field follows mandatory data. I assume this means you can only have \*one\* of these fields at a time, not both.

I assume also that the optional comment field cannot start with 60/27/1D hex (otherwise it would be confused with a telemetry field).

Are these assumptions correct?

Can you help?

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: [billdiaz@megsinet.net](mailto:billdiaz@megsinet.net)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

---

You are currently subscribed to aprsspec as: [wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Sat Oct 09 10:52:39 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id KAA14886  
for <wd5ivd@tappr.org>; Sat, 9 Oct 1999 10:47:32 -0500 (CDT)  
Date: Sat, 09 Oct 1999 10:45:44 -0500  
From: Bill Diaz <billdiaz@megsinet.net>  
Subject: [aprrspec] Mic-e packets  
To: "APRS Spec Discussion List" <aprrspec@lists.tappr.org>  
Reply-to: "billdiaz@megsinet.net" <billdiaz@megsinet.net>  
Message-id: <LYR11594-44161-1999.10.09-10.59.09--wd5ivd#tappr.org@lists.tappr.org>  
MIME-version: 1.0  
Content-type: text/plain; charset="us-ascii"  
Content-transfer-encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprrspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprrspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprrspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <01BF1243.72BC11E0.billdiaz@megsinet.net>  
Sender: bounce-aprrspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

I was connected to N9UUR this morning and observed the following packets.

N0JUP-14>RELAY>N0BKB>N0JUP-1>W0MXW-1\*>T13W4U: `y<51 k/>EMAIL:COACH1205\*HOME  
KB0PSS-9\*>RELAY>WIDE>T4PQ4X: `x<`l+ak/>ROCHESTER-MN Wiebke\_  
W3MJP>K3ATI-11\*>WIDE>T0PV6T: `g\Xo,5>/>MOBILE  
KC4XX>RELAY>WIDE\*>R8RW0U: `m1P1 j/>HANKSTER 98ACCORD

How are the multiple '>' characters interpreted? Is this a legal construct according to the spec?

The spec states :

Mic-Encoder - The Mic-E includes part of its position in the TOCALL.  
Therefore these need to be decoded by everyone.

Are these Mic-E packets? It appears that the last call in the T0 list may be a valid Mic-E location field containing Latitude etc.

N0JUP-14>RELAY>N0BKB>N0JUP-1>W0MXW-1\*>T13W4U: `y<51 k/>EMAIL:COACH1205\*HOME  
Decoding this as a Mic-e packet would require decoding the 6 characters preceding  
the ':' character rather than the T0 Call as in  
KR4YL-7>RWUW3U,K0ZXF-7\*,WIDE: `n<4!+E>/>PAUL pk@ij.net

KC4XX>R8RU5Y/V: `m4\*1 j/>HANKSTER 98ACCORD

This packet appears to have 2 extra characters in the To Call.  
What is the significance of /V in the To Call?

Decoding this packet would require decoding the first 6 characters in the TO  
CALL  
and ignoring '/V'. The previous example requires decoding of the 6 characters  
preceding the ':' character. Certainly is confusing, to me at least.

Bill, KC9XG

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sat Oct 09 12:37:02 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA18118  
for <wd5ivd@tapr.org>; Sat, 9 Oct 1999 12:28:21 -0500 (CDT)  
Message-ID: <LYR11594-44164-1999.10.09-12.39.58--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 9 Oct 1999 18:24:47 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: [arpp] Help with MIC-E Protocol Spec please  
In-Reply-To: <yJFgi0AURy\$3Ewac@dowrmain.demon.co.uk>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <A8n8PmAfp3\$3EwOC@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

In article <yJFgi0AURy\$3Ewac@dowrmain.demon.co.uk>, Ian Wade  
<ian@dowrmain.demon.co.uk> writes  
>From: Ian Wade <ian@dowrmain.demon.co.uk>  
>  
>I've been reading through the MIC-E protocol spec (Crosswell/Parsons,  
>Jun97/Dec98), and there are a few things I don't understand:

Replying to my own post, I see I was completely off the track. I think  
I've cracked it now, by looking at some on-air traffic. For example, 2

packets from the same station:

N2SXJ-1>APK,APS:@091543z3947.23N/07501.98W- ....

N2SXJ-1>S9TW2S,N2SXJ,W3PHL-3,KE3XY-3\*,WIDE/1:`gY~1 -/>bed station

>From the first packet, this station is at 39 deg 47.23 min N,  
75 deg 1.98 min W.

The destination in the second packet is "S9TW2S". Referring to the table in the Mic-E spec, this decodes as follows:

|             |     |     |     |     |     |     |
|-------------|-----|-----|-----|-----|-----|-----|
| ASCII Char: | S   | 9   | T   | W   | 2   | S   |
| Bit:        | A=0 | B=1 | C=0 | N=0 | L=1 | W=0 |
| Lat Digit:  | 3   | 9   | 4   | 7   | 2   | 3   |

The latitude digits match the first packet OK.

According to the spec, the A/B/C bits have to be inverted, so the message code is 101 (i.e. a "Special" message -- I wonder if this is correct?)

The N bit is 0, meaning South .....Hmmm

The L bit is 1, meaning the longitude is greater than 100 degrees ...  
HMMMMMMMMMMMM

The W bit is 0, meaning East ..... HMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM

Soooooooo, have I \*still\* got it all wrong, or are the headings on columns 2 and 3 of the ASCII table transposed (i.e. col 2 is for Bit=1 and col 3 is for Bit=0), and should the message bits A/B/C really be inverted?

Also, the table heading refers to "Message/N/W/L" bit settings, whereas Fig 2 shows the octets in the order A/B/C/N/L/W -- i.e. the "W" and "L" are transposed. Which is correct?

Looking at several other continental U.S. Mic-E stations just now, they all appear to be South and East, which I'm disinclined to believe.

Comments anyone, please. I really need to understand this stuff.

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
```

```
|
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sat Oct 09 13:06:37 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA18772  
for <wd5ivd@tapr.org>; Sat, 9 Oct 1999 12:51:51 -0500 (CDT)  
Message-ID: <LYR11594-44166-1999.10.09-13.03.27--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 9 Oct 1999 18:50:33 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: [arpp] Help with MIC-E Protocol Spec please  
In-Reply-To: <yJFgi0AURy\$3Ewac@dowrmain.demon.co.uk>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <tT6HUxApB4\$3Ew53@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

In article <Bc\$8HoA9r3\$3EwMZ@dowrmain.demon.co.uk>, Ian Wade  
<ian@dowrmain.demon.co.uk> writes

>

>Replying to my own post, I see I was completely off the track. I think  
>I've cracked it now, by looking at some on-air traffic. For example, 2  
>packets from the same station:  
>

Some more evidence. Two more packets from one station:

KR4YL-7>APRS,TCPIP,KA2TOC\*:@091146z2753.51N/08245.71W>180/041/Mic-E/M0/Off duty  
KR4YL-7>RWUR9S,RELAY,WIDE/1:`nIf Sl>/>PAUL pk@ij.net

The comment in the first packet says "Off duty". This is message code 0.

In the second packet, the destination is RWUR9S. Decoding the A/B/C bits:



ASCII Char: R W U  
Bit: A=0 B=0 C=0  
Lat Digit: 2 7 5

Inverting A/B/C per the spec, the message code is 7 (Emergency).

So I really \*do\* think the spec is standing on its head.

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 01:35:23 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id BAA16082

for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 01:26:18 -0500 (CDT)

Date: Sun, 10 Oct 1999 01:26:05 -0500 (CDT)

From: Tim Salo <salo@networkcs.com>

Message-Id: <LYR11594-44230-1999.10.10-01.37.59--wd5ivd#tapr.org@lists.tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Omission: Internet APRS protocol specification

In-Reply-To: <LYR11595-44065-1999.10.08-11.48.44--

salo#networkcs.com@lists.tapr.org>

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199910100626.BAA01249@us.networkcs.com>

Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk

Status:

> Subject: [aprsspec] Re: Omission: Internet APRS protocol specification

> Date: Fri, 8 Oct 1999 11:36:33 -0500

> From: Steve Dimse K4HG <k4hg@tapr.org>

>  
> APRServe uses the text output of the TNC, so there is no separate  
> protocol to be documented.

I am not entirely convinced that this is the case.

I believe that the objective of a protocol specification is to enable the development of interoperable implementations. I don't believe that the APRS protocol specification, as it is currently envisioned, will be adequate to permit the development interoperable APRServe or IGate implementations.

The APRServe/IGate protocol specification might include the following:

- o A brief overview of the APRServe/IGate system
- o A description of the APRServe/IGate protocol (e.g., text strings transported over the telnet protocol)
- o The format of messages forwarded by the APRS/IGate system, which appear to be either in the TNC-2 MONitor command output format or the Timewave/AEA MONitor command output format, (or, some software seems to munge the two formats together in one packet). Somewhere I drafted ABNF descriptions of the TNC-2 and Timewave/AEA MONitor command output formats.
- o The IGate status protocol (identified by the "<" APRS protocol identifier, but listed as "reserved" in the current APRS protocol specification)

<IGATE MSG\_CNT=nnn LOC\_CNT=nnn FILL\_CNT=nnn

- o APRServe/IGate comments ("#" in the first column of a line)
- o APRServe/IGate port numbers
  - 23
  - 10151
  - 14579
  - 1313
  - ...
- o A description of the redundant frames that are ignored
- o A description of any MIC-E translations
- o The APRServe/IGate authentication protocol, or at least a hint that one exists

- o A description of the characters that the APRServe/IGate system does and doesn't forward
- o A description of the call signs that the APRServe/IGate system use that don't conform to the AX.25 specification (i.e., calls longer than six characters)
- o Probably a bunch of other stuff I forgot or don't know...

I don't know whether the APRServe/IGate protocols should be specified in the APRS protocol specification or in some other document. If it would be useful and if no one else volunteers, I would be happy to write a draft of a APRServe/IGate protocol specification.

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 01:50:21 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id BAA16426  
for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 01:39:31 -0500 (CDT)

Date: Sun, 10 Oct 1999 01:39:19 -0500 (CDT)

From: Tim Salo <salo@networkcs.com>

Message-Id: <LYR11594-44231-1999.10.10-01.51.10--wd5ivd#tapr.org@lists.tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please

In-Reply-To: <LYR11595-44181-1999.10.09-16.52.50--salo#networkcs.com@lists.tapr.org>

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199910100639.BAA01422@us.networkcs.com>

Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk

Status:

> Date: Sat, 09 Oct 1999 16:39:49 -0500

> From: Bill Diaz <billdiaz@megsinet.net>

> Subject: [aprsspec] RE: [aprssig] Re: [arpp] Help with MIC-E Protocol Spec please

>

> I have been successfully decoding Mic-e packets via the Internet.

> Admittedly, there are a few I haven't been able to decode. The packets

> decoded successfully conform to the Mic-e manual. The ones I haven't decoded  
> are the packets which include multiple '>' characters in the header.  
> [...]

I believe that APRServe pretty much forwards whatever it receives that is close to output from the MONitor command. There are actually two formats: the TNC-2 format (which uses commas) and the Timewave/AEA format (which uses greater-than signs and has the destination call last).

Somewhere, I have ABNF descriptions of both of these formats, which include a few other things like differing uses of asterisks.

I also have a Java AX25Frame class that includes a constructor that creates an object from an APRServe line (i.e., it parses the AX.25 packets received from APRServe).

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 06:04:06 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id FAA01430  
for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 05:59:52 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-44246-1999.10.10-06.11.33--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 10 Oct 1999 06:55:43 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: Omission: Internet APRS protocol specification  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v0420550bb426204b57b8@[165.230.139.231]>  
<LYR11588-44230-1999.10.10-01.37.59--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-44230-1999.10.10-01.37.59--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

You have good points, and this stuff will need to be documented, HOWEVER, it is not part of the On-AIR protocol which is the FIRST thing that we are trying to finalize..

Also, although the stuff you ask about are valid questions, they could vary for Igate implementations, the answers to most of your questions would be recommendations and not part of a fixed protocol.

In the long run, it probably could/should be part of the same document, however I would like to finish the protocol spec itself first.

Keith Sproul

```
> > Subject: [aprsspec] Re: Omission: Internet APRS protocol specification
> > Date: Fri, 8 Oct 1999 11:36:33 -0500
> > From: Steve Dimse K4HG <k4hg@tapr.org>
> >
> > APRServe uses the text output of the TNC, so there is no separate
> > protocol to be documented.
>
> I am not entirely convinced that this is the case.
>
> I believe that the objective of a protocol specification is to enable the
> development of interoperable implementations. I don't believe that the APRS
> protocol specification, as it is currently envisioned, will be adequate to
> permit the development interoperable APRServe or IGate implementations.
>
> The APRServe/IGate protocol specification might include the following:
>
> o A brief overview of the APRServe/IGate system
>
> o A description of the APRServe/IGate protocol (e.g., text strings
> transported over the telnet protocol)
>
> o The format of messages forwarded by the APRS/IGate system, which appear
> to be either in the TNC-2 MONitor command output format or the
> Timewave/AEA MONitor command output format, (or, some software seems to
> munge the two formats together in one packet). Somewhere I drafted ABNF
> descriptions of the TNC-2 and Timewave/AEA MONitor command output
> formats.
>
> o The IGate status protocol (identified by the "<" APRS protocol
> identifier, but listed as "reserved" in the current APRS protocol
> specification)
>
```

```

> <IGATE MSG_CNT=nnn LOC_CNT=nnn FILL_CNT=nnn
>
>o APRServe/IGate comments ("#" in the first column of a line)
>
>o APRServe/IGate port numbers
>
> - 23
> - 10151
> - 14579
> - 1313
> - ...
>
>o A description of the redundant frames that are ignored
>
>o A description of any MIC-E translations
>
>o The APRServe/IGate authentication protocol, or at least a hint that one
> exists
>
>o A description of the characters that the APRServe/IGate system does and
> doesn't forward
>
>o A description of the call signs that the APRServe/IGate system use that
> don't conform to the AX.25 specification (i.e., calls longer than six
> characters)
>
>o Probably a bunch of other stuff I forgot or don't know...
>
>I don't know whether the APRServe/IGate protocols should specified in the
>APRS protocol specification or in some other document. If it would be
>useful and if no one else volunteers, I would be happy to write a draft
>of a APRServe/IGate protocol specification.
>
>-tjs
>
>---
>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu
>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

```

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 06:04:07 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id GAA01452  
for <wd5ivd@tappr.org>; Sun, 10 Oct 1999 06:00:13 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-44247-1999.10.10-06.11.48--wd5ivd#tappr.org@lists.tappr.org>  
Date: Sun, 10 Oct 1999 06:58:25 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please  
Cc: aprsspec@lists.tappr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v0420550cb42621398f97@[165.230.139.231]>  
<LYR11588-44231-1999.10.10-01.51.10--ksproul#vger.rutgers.edu@lists.tappr.org>  
<LYR11588-44231-1999.10.10-01.51.10--ksproul#vger.rutgers.edu@lists.tappr.org>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

> > Date: Sat, 09 Oct 1999 16:39:49 -0500  
> > From: Bill Diaz <billldiaz@megsinet.net>  
> > Subject: [aprsspec] RE: [aprssig] Re: [arpp] Help with MIC-E  
> Protocol Spec please  
> >  
> > I have been successfully decoding Mic-e packets via the Internet.  
> > Admittedly, there are a few I haven't been able to decode. The packets  
> > decoded successfully conform to the Mic-e manual. The ones I  
> haven't decoded  
> > are the packets which include multiple '>' characters in the header.  
> > [...]  
>  
> I believe that APRServe pretty much forwards whatever it receives that  
> is close to output from the MONitor command. There are actually two  
> formats: the TNC-2 format (which uses commas) and the Timewave/AEA format  
> (which uses greater-than signs and has the destination call last).

The main exception to this is MIC-E packets. APRServe, WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them to 'normal' APRS packets to get rid of the control characters before sending them to the Internet..

Older versions of WinAPRS/MacAPRS just send the Mic-E packets directly, and we need to make an effort to get this stations updated.

Keith Sproul

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 09:48:05 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA06068  
for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 09:34:43 -0500 (CDT)  
Message-ID: <LYR11594-44266-1999.10.10-09.46.27--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sun, 10 Oct 1999 15:32:11 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please  
In-Reply-To: <LYR11659-44247-1999.10.10-06.11.48--ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <sBlngGArNKA4Ewck@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

In article <LYR11659-44247-1999.10.10-06.11.48--ian#dowrmain.demon.co.uk@lists.tapr.org>, Keith Sproul <ksproul@vger.rutgers.edu> writes

>The main exception to this is MIC-E packets. APRServe,  
>WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them  
>to 'normal' APRS packets to get rid of the control characters before  
>sending them to the Internet..



>

Keith, you will have seen my head-scratching over the last couple of days about Mic-E. I still need authoritative confirmation from someone that the first 6 characters of the Mic-E \*destination address\* are transmitted \*ONLY\*, repeat \*ONLY\*, using printable ASCII 0-9/A-L/P-Z characters (shifted one bit left in the packet at assembly time, just like regular callsign characters), such as in the new table I presented yesterday.

If that's really the case, then APRS and the other packages you listed do \*not\* need to do anything special with \*reporting\* a \*destination address\* with a MONITOR command. True or false?

[I know the same doesn't apply to the Information field, which \*can\* contain non-printable characters, and what you see will depend on what software you're using to read it].

73

Ian, G3NRW

--

```
+-----+
| Editor: RSGB's RadCom "Data" column. |
| email: g3nrw@arrl.net |
| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 10:03:02 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id KAA06886

for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 10:01:53 -0500 (CDT)

Mime-Version: 1.0

Message-Id: <LYR11594-44276-1999.10.10-10.13.30--wd5ivd#tapr.org@lists.tapr.org>

Date: Sun, 10 Oct 1999 11:00:24 -0400

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Keith Sproul <ksproul@vger.rutgers.edu>

Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please

Cc: aprsspec@lists.tapr.org

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v0420550eb42659a1d32d@[165.230.139.231]>  
<LYR11588-44266-1999.10.10-09.46.27--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-44266-1999.10.10-09.46.27--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

The T0 address of an AX25 packet (also called the DESTINATION address) is, (by definition, of the AX25 protocol) EXACTLY 6 characters (each UPPER CASE ONLY or 0-9 ONLY) and an SSID, which is actually a 4 bit field in the actual packet.

Therefore, it MUST be a printable ASCII character and CANNOT be a control character.

What you said is correct. It CANNOT have control characters in the T0/Destination field.

We couldn't change this if we wanted to, it is part of AX25.

Keith

>In article <LYR11659-44247-1999.10.10-06.11.48--ian#downmain.demon.co.uk  
>@lists.tapr.org>, Keith Sproul <ksproul@vger.rutgers.edu> writes

>  
>>The main exception to this is MIC-E packets. APRServe,  
>>WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them  
>>to 'normal' APRS packets to get rid of the control characters before  
>>sending them to the Internet..  
>>  
>

>Keith, you will have seen my head-scratching over the last couple of  
>days about Mic-E. I still need authoritative confirmation from someone  
>that the first 6 characters of the Mic-E \*destination address\* are  
>transmitted \*ONLY\*, repeat \*ONLY\*, using printable ASCII 0-9/A-L/P-Z  
>characters (shifted one bit left in the packet at assembly time, just  
>like regular callsign characters), such as in the new table I presented  
>yesterday.  
>

>If that's really the case, then APRS and the other packages you listed  
>do \*not\* need to do anything special with \*reporting\* a \*destination  
>address\* with a MONITOR command. True or false?  
>  
>[I know the same doesn't apply to the Information field, which \*can\*  
>contain non-printable characters, and what you see will depend on what  
>software you're using to read it].  
>  
>73  
>Ian, G3NRW  
>--  
>+-----+  
>| Editor: RSGB's RadCom "Data" column. |  
>| email: g3nrw@arrl.net |  
>| AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |  
>| |  
>| INTRODUCTION TO APRS: <http://www.netro.co.uk/whitepaper.htm> |  
>| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/aprswg.html> |  
>+-----+  
>  
>---

>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu  
>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

|                                                                                   |                     |
|-----------------------------------------------------------------------------------|---------------------|
| Keith Sproul                                                                      | 732 445-3695 Office |
| Student Housing Network Coordinator                                               | 732 445-2968 Fax    |
| <a href="mailto:ksproul@rci.rutgers.edu">mailto:ksproul@rci.rutgers.edu</a>       | 732 821-4828 Home   |
| <a href="http://dorm.rutgers.edu/~ksproul/">http://dorm.rutgers.edu/~ksproul/</a> | WU2Z                |

---  
You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sun Oct 10 10:17:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id KAA07303  
for <wd5ivd@tapr.org>; Sun, 10 Oct 1999 10:15:50 -0500 (CDT)  
Date: Sun, 10 Oct 1999 10:15:37 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-44277-1999.10.10-10.27.32--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please  
In-Reply-To: <v0420550cb42621398f97@[165.230.139.231]>  
List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <199910101515.KAA05350@us.networkcs.com>

Sender: bounce-aprsspec-11594@lists.tappr.org

Precedence: bulk

Status:

> Date: Sun, 10 Oct 1999 06:58:25 -0400

> From: Keith Sproul <ksproul@vger.rutgers.edu>

> Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please

>

> >I believe that APRServe pretty much forwards whatever it receives that  
> >is close to output from the MONitor command. There are actually two  
> >formats: the TNC-2 format (which uses commas) and the Timewave/AEA format  
> >(which uses greater-than signs and has the destination call last).

>

> The main exception to this is MIC-E packets. APRServe,  
> WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them  
> to 'normal' APRS packets to get rid of the control characters before  
> sending them to the Internet..

>

> Older versions of WinAPRS/MacAPRS just send the Mic-E packets  
> directly, and we need to make an effort to get this stations updated.

I believe we are talking about two different things here. My response was that anyone wanting to parse the data stream from an APRServe must be prepared to parse both the TNC-2 MONitor command format outputs

FROMCALL>TOCALL,VIA1,VIA2,...

and the Timewave MONitor command format

FROMCALL>VIA1>VIA2>VIA>...>TOCALL

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Sun Oct 10 10:47:51 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.11) with SMTP id KAA07927

for <wd5ivd@tappr.org>; Sun, 10 Oct 1999 10:42:44 -0500 (CDT)

Mime-Version: 1.0

Message-Id: <LYR11594-44279-1999.10.10-10.54.27--wd5ivd#tappr.org@lists.tappr.org>

Date: Sun, 10 Oct 1999 11:41:27 -0400

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

From: Keith Sproul <ksproul@vger.rutgers.edu>

Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please

Cc: aprsspec@lists.tappr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v04205510b42663601df3@[165.230.139.231]>  
<LYR11588-44277-1999.10.10-10.27.32--ksproul#vger.rutgers.edu@lists.tappr.org>  
<LYR11588-44277-1999.10.10-10.27.32--ksproul#vger.rutgers.edu@lists.tappr.org>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Yes, you are correct.. Anyone wanting to parse stuff from the Servers, MUST be able to handle both..

Anyone wanting to write a program that works with TNCs in general, must be able to handle both..

If someone was using either KISS mode, or writing a program that was ONLY for use with a certain brand of TNC, they would not have to..

We (the Working Group) decided to publish everything in TNC-2 format, and later have a second document that showed all of the variations from different types of TNCs..

Any/all test suites, files etc, will be published in TNC-2 format.

Keith

> > Date: Sun, 10 Oct 1999 06:58:25 -0400  
> > From: Keith Sproul <ksproul@vger.rutgers.edu>  
> > Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please  
> >  
> > >I believe that APRServe pretty much forwards whatever it receives that  
> > >is close to output from the MONitor command. There are actually two  
> > >formats: the TNC-2 format (which uses commas) and the Timewave/AEA format  
> > >(which uses greater-than signs and has the destination call last).  
> >  
> > The main exception to this is MIC-E packets. APRServe,  
> > WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them  
> > to 'normal' APRS packets to get rid of the control characters before

> > sending them to the Internet..  
> >  
> > Older versions of WinAPRS/MacAPRS just send the Mic-E packets  
> > directly, and we need to make an effort to get this stations updated.  
>  
>I believe we are talking about two different things here. My response  
>was that anyone wanting to parse the data stream from an APRServe must  
>be prepared to parse both the TNC-2 MONitor command format outputs  
>  
> FROMCALL>TOCALL,VIA1,VIA2,...  
>  
>and the Timewave MONitor command format  
>  
> FROMCALL>VIA1>VIA2>VIA>...>TOCALL  
>  
>-tjs  
>  
>---  
>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu  
>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

Keith Sproul 732 445-3695 Office  
Student Housing Network Coordinator 732 445-2968 Fax  
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
http://dorm.rutgers.edu/~ksproul/ WU2Z

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 11 08:41:26 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id IAA25035  
for <wd5ivd@tappr.org>; Mon, 11 Oct 1999 08:38:22 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 11 Oct 1999 09:38:06 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Mic-e packets  
In-Reply-To: <LYR11586-44161-1999.10.09-10.59.09--  
bruninga#nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11594-44394-1999.10.11-08.50.08--wd5ivd#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyras Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9910110934380.1014-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

On Sat, 9 Oct 1999, Bill Diaz wrote:

```
> W3MJP>K3ATI-11*>WIDE>T0PV6T:`g\Xo,5>/>MOBILE
> KC4XX>RELAY>WIDE*>R8RW0U:`m1P1 j/>HANKSTER 98ACCORD
>
> How are the multiple '>' characters interpreted? Is this a legal
> construct according to the spec?
```

There has been an "addition" to the Mic-E implementation by Kenwood to identify the THD7 as separate from other Mic-E's. This is because unlike conventional Mic-E's, the THD7 can send and receive messages. Thus we need to know who is a Mic-E and who is a THD7 on receipt. If the "first" byte of the Mic-E comment field is a ">", then it is a THD7...  
The new Kenwood Mobile will use a "]"... I think...

de WB4APR

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 11 09:11:23 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id JAA25949  
for <wd5ivd@tappr.org>; Mon, 11 Oct 1999 09:05:40 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 11 Oct 1999 10:05:25 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please  
In-Reply-To: <LYR11586-44266-1999.10.10-09.46.27--  
bruninga#nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11594-44396-1999.10.11-09.17.22--wd5ivd#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>

List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9910111003410.1014-100000@arctic>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

The Mic-E TO-ADDRESS is received by any TNC and displayed in the monitor format as uppercase alphabetic and numerals only. Iv'e been on travel 4 days of every week for the last month, DCC, Kenwood, AMSAT and have not had time to get into this in detail...

bob

On Sun, 10 Oct 1999, Ian Wade wrote:

> In article <LYR11659-44247-1999.10.10-06.11.48--ian#downmain.demon.co.uk  
> @lists.tapr.org>, Keith Sproul <ksproul@vger.rutgers.edu> writes  
>  
> >The main exception to this is MIC-E packets. APRServe,  
> >WinAPRS/MacAPRS and APRSa+ all take the Mic-E packet and CONVERT them  
> >to 'normal' APRS packets to get rid of the control characters before  
> >sending them to the Internet..  
> >  
>  
> Keith, you will have seen my head-scratching over the last couple of  
> days about Mic-E. I still need authoritative confirmation from someone  
> that the first 6 characters of the Mic-E \*destination address\* are  
> transmitted \*ONLY\*, repeat \*ONLY\*, using printable ASCII 0-9/A-L/P-Z  
> characters (shifted one bit left in the packet at assembly time, just  
> like regular callsign characters), such as in the new table I presented  
> yesterday.  
>  
> If that's really the case, then APRS and the other packages you listed  
> do \*not\* need to do anything special with \*reporting\* a \*destination  
> address\* with a MONITOR command. True or false?  
>  
> [I know the same doesn't apply to the Information field, which \*can\*  
> contain non-printable characters, and what you see will depend on what  
> software you're using to read it].  
>  
> 73  
> Ian, G3NRW  
> --  
> +-----+  
> | Editor: RSGB's RadCom "Data" column. |



```

> |      email: g3nrw@arrl.net |
> |      AX.25: G3NRW @ GB7ZPU.#21.GBR.EU |
> | |
> | INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
> | APRS PROTOCOL SPEC:   http://www.tapr.org/tapr/html/aprswg.html |
> +-----+
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org
>
>

```

APRSDOS REPLY/COMMENT:

```

Reply mail addr:  wb4apr@amsat.org
US mail address:  115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY:  http://web.usna.navy.mil/~bruninga/dayton.html
See Maryland APRS LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
See GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html

```

```

---
You are currently subscribed to aprsspec as: wd5ivd@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

```

```

From ???@??? Tue Oct 12 08:53:47 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
        by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA19893
        for <wd5ivd@tapr.org>; Tue, 12 Oct 1999 08:46:12 -0500 (CDT)
Message-Id: <LYR11594-44573-1999.10.12-08.57.58--wd5ivd@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Omission: Internet APRS protocol specification
Date: Tue, 12 Oct 1999 09:26:26 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse K4HG <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>
List-Software: Lyras Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <199910121345.GAA09994@goose.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11594@lists.tapr.org
Precedence: bulk
Status:

```

On 10/8/99 1:02 PM Jeff King (jeff@aerodata.net) wrote:

>Steve:

>

>The purpose of the APRSSPEC, as I understand it, is so someone presently  
>outside of the present authors can develop APRS compatible display and  
>tracking issues. In other words, to make APRS "Open Source".

>

>As APRSSERVE is a integral part of this, it is imperative that it also be  
>documented, as is spelled out in the agreement that the WG, which you  
>are a member of, came to agreement upon.

>

The is nothing hidden in APRServe, other than the password algorith. It  
is all documented in my various DCC papers and web site files. The APRS  
WG charter very specifically states that it deals with the protocol  
itself, not the user interface or other related issues. At some point we  
will likely expand the charter to include other topics like the internet  
system and XML spec, but we must be more focused at this time.

>While you are correct, it does use the "text output" of the TNC, there are  
>other issues that need to be documented. For example, the tcp/ip port  
>numbers that APRSSERVE uses.

These are on the web site, and there is no need for another application  
to use the same port numbers in any case.

>Also, the messaging token system you  
>are using.

What do you mean by message token? This is a term the authors have never  
used...

>Without this information, it would require reverse engineering  
>of APRServe to develop a internet capable "APRS display" application.

Wrong. With the APRS protocol spec, you have everything you need to write  
such an application.

>Or look at it another way. You need to write a description, so a programmer  
>with the basic understanding of APRS, can successfully write a APRServe  
>application without to many questions to you. Without the tcp port numbers,  
>as well as the RF messaging authentication, I fail to see how this can be  
>done.

>

The only thing secret is the actual algorithm for converting a callsign  
to a validation number. This must remain a secret or else there is no  
reason to have it at all, and every IGate operator's license is at risk.

I have shared it, and will continue to share it, with everyone that develops a working application that requires it.

Steve K4HG

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Tue Oct 12 10:42:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id KAA25354  
for <wd5ivd@tapr.org>; Tue, 12 Oct 1999 10:40:24 -0500 (CDT)  
Date: Tue, 12 Oct 1999 10:40:00 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-44589-1999.10.12-10.52.03--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS Objects  
In-Reply-To: <LYR11595-43702-1999.10.06-19.41.55--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910121540.KAA57236@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> Date: Wed, 06 Oct 1999 20:29:55 -0400  
> From: Wes Johnston <kd4rdb@netzero.com>  
> Subject: [aprsspec] Re: APRS Objects  
> [...]  
> We could get mired down in public / private keys and all sorts of  
> authorizations... but we already have a system in place... the "secret  
> decoder ring" of skywarn. Let's just add a new category of object to the  
> list of things that skywarn can do that normal users can't. When you get  
> right down to it, a hacker could create a skywarn county warning by  
> hand. So what we have is a case where a person could easily study our  
> system and hack it. Most newbies that would create an object don't read  
> the manual, and once they do and understand, they are less apt to cause  
> problems anyway. I just want to make it inconvenient for newbies to make  
> objects... and to allow me to weed out those objects.  
> [...]

Note that the result, if not the objective, of creating a public APRS specification is to foster the development of independent, interoperable

implementations of the APRS protocol. In this new environment "secret decoder rings" become a less realistic technique.

I believe that one question that may be useful to answer is: How robust does the APRS protocol need to be in order to meet the stated objectives, such as credibility as a tool for emergency communications? (If you suspect that I don't believe that secret decoder rings are a robust technique for an open protocol, you are correct.)

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 13 10:07:12 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id BAA29241  
for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 01:04:58 -0500 (CDT)  
Message-ID: <LYR11594-44729-1999.10.13-01.16.46--wd5ivd#tapr.org@lists.tapr.org>  
From: "Thomas M. Schaefer" <toms@inconnect.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] APICQ  
Date: Wed, 13 Oct 1999 00:04:43 -0600  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <00b601bf1540\$d89077e0\$7b438cd1@infinia>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

When I first talked to Bob about the ICQ Server, I mentioned that I was originating messages. At that time, Bob gave me a license to use the server as it did not compete with any existing products. He gave me the ID of APICQX. I noticed in the list that APIXX was reserved for ICOM (future use). There seems to be a conflict here.

If this is the wrong place to correct this, please forgive me as I did not see an email address in the spec.

Tom NY4I

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Wed Oct 13 10:07:20 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id HAA17046  
for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 07:08:00 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-44749-1999.10.13-07.19.51--wd5ivd#tapr.org@lists.tapr.org>  
Date: Wed, 13 Oct 1999 08:02:02 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: APICQ  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205523b42a245a0d4c@[165.230.139.231]>  
<LYR11588-44729-1999.10.13-01.16.46--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11588-44729-1999.10.13-01.16.46--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

This -IS- the correct place for this.. Thank you for bringing it to our attention.

We had 'assigned' 'I' and 'Y' to Icom and Yaesu for the obvious reasons..

Since Icom has not (yet) come out with any data capable radios and we do not know of any on the horizon, it would be easy to just assign them something else, or we could assign you something else.. APQ for example.

In either case, we need to do it soon...

Keith SProul

>When I first talked to Bob about the ICQ Server, I mentioned that I was  
>originating messages. At that time, Bob gave me a license to use the server  
>as it did not compete with any existing products. He gave me the ID of  
>APICQX. I noticed in the list that APIXX was reserved for ICOM (future use).  
>There seems to be a conflict here.

>

>If this is the wrong place to correct this, please forgive me as I did not  
>see an email address in the spec.

>

>Tom NY4I

>

>

>---

>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu

>To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Wed Oct 13 10:07:21 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.11) with SMTP id HAA17991

for <wd5ivd@tappr.org>; Wed, 13 Oct 1999 07:56:15 -0500 (CDT)

X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs

Date: Wed, 13 Oct 1999 08:56:00 -0400 (EDT)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: APICQ

In-Reply-To: <LYR11586-44729-1999.10.13-01.16.46--

bruninga@nadn.navy.mil@lists.tappr.org>

Message-ID: <LYR11594-44758-1999.10.13-08.08.06--wd5ivd@tappr.org@lists.tappr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9910130852400.25579-1000000@arctic>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

On Wed, 13 Oct 1999, Thomas M. Schaefer wrote:

> When I first talked to Bob about the ICQ Server, I mentioned that I was  
> originating messages. At that time, Bob gave me a license to use the  
> server as it did not compete with any existing products. He gave me the  
> ID of APICQX. I noticed in the list that APIXX was reserved for ICOM  
> (future use). There seems to be a conflict here.

You beat Icom to the letter "I", so now I would say that

APIC0x is reserved for ICOM  
APICQx is yours...

In my opinion only.... Needing ratification by the group of course.  
bob

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 00:18:58 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id TAA10016  
for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 19:59:44 -0500 (CDT)  
Message-ID: <LYR11594-44844-1999.10.13-20.11.35--wd5ivd#tapr.org@lists.tapr.org>  
Date: Wed, 13 Oct 1999 21:00:16 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] PROTEST: Internet APRS protocol specification  
References: <199910121345.GAA09994@goose.prod.itd.earthlink.net>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <38052B20.16D7DB56@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Steve:

As we apparently disagree on what and even if any internet specific spec information needs to be included in the first draft of APRSSPEC, I will ask that a PROTEST be entered and refer this matter to the WG for vote. The issue in question is what actually was agreed upon, in writing, by the WG to provide as it relates to internet specifications in the first draft (see my comments later for more detail).

John, can you see that this happens? (as well as read along here)

Now some specifics on what you last said.

Steve Dimse K4HG wrote:

> On 10/8/99 1:02 PM Jeff King (jeff@aerodata.net) wrote:  
>  
> >Steve:  
> >  
> >The purpose of the APRSSPEC, as I understand it, is so someone presently  
> >outside of the present authors can develop APRS compatible display and  
> >tracking issues. In other words, to make APRS "Open Source".  
> >  
> >As APRSSERVE is a integral part of this, it is imperative that it also be  
> >documented, as is spelled out in the agreement that the WG, which you  
> >are a member of, came to agreement upon.  
> >  
> The is nothing hidden in APRServe, other than the password algorithm. It  
> is all documented in my various DCC papers and web site files.

Then we need LINKS to these documents.... The APRSSPEC is supposed to be a freestanding reference document. It should include this data

or at least the links so someone not with your knowledge can develop a APRS internet linked application.

> The APRS  
> WG charter very specifically states that it deals with the protocol  
> itself, not the user interface or other related issues.



It has nothing to do with user interfaces. We are talking raw protocol and specs here. I've already made this clear.

> At some point we  
> will likely expand the charter to include other topics like the internet  
> system and XML spec, but we must be more focused at this time.

The TAPR announcement 2 *\*specifically\** states internet protocols NOW. Not deferred, not later, not real soon now. Its says with the FIRST DRAFT which is the process we are doing now. We are not talking about XML, but what is presently being used.

I quote from announcement2.pdf, on page 3, paragraph 1:

>Protocol Committee  
>The APRS Protocol Specification is the formal definition of the data elements and  
>message formats used to communicate between APRS devices via wireless or wired  
>(e.g., Internet) connections. It does not include user interface or other  
elements that  
>do not affect the content or format of these interface components.

Then from paragraph 3 it states:

>The Protocol Committee intends to publish Version 1.0 of the APRS Protocol  
>Specification by the end of October 1999. The first draft of the Specification  
will be  
>made available to the amateur radio community by the end of June 1999, and  
>comments will be accepted as defined below.

This may be the key to the disagreement here. Is it your thinking that the document is wrong and does not call for the internet specs to be released with the first draft, as it seems to state?

> >While you are correct, it does use the "text output" of the TNC, there are  
> >other issues that need to be documented. For example, the tcp/ip port  
> >numbers that APRSSERVE uses.  
>  
> These are on the web site, and there is no need for another application  
> to use the same port numbers in any case.

You've said that to me before, and I've never been able to find them. Even if this is true, YOU STILL NEED TO DOCUMENT THEM IN THE APRSSPEC. And if your trying to claim server PORT NUMBERS are an operational issue, then you should note that APRS operational specs are also in the spec. But port numbers are commonly ASSIGNED to specific apps, hence it is my claim they are NOT operational issues but SPEC

issues.

They need to be in APRSSPEC.

> >Without this information, it would require reverse engineering  
> >of APRServe to develop a internet capable "APRS display" application.  
>  
> Wrong. With the APRS protocol spec, you have everything you need to write  
> such an application.

Port numbers? Authentication? the process to connect to the server?, the  
status messages on port 14501? NONE OF IT IS THERE. Its needs to be  
referenced in the APRSSPEC document.

> >Or look at it another way. You need to write a description, so a programmer  
> >with the basic understanding of APRS, can successfully write a APRServe  
> >application without to many questions to you. Without the tcp port numbers,  
> >as well as the RF messaging authentication, I fail to see how this can be  
> >done.  
> >  
> The only thing secret is the actual algorithm for converting a callsign  
> to a validation number. This must remain a secret or else there is no  
> reason to have it at all, and every IGate operator's license is at risk.

While this may very well be true, the charter of the WG doesn't call  
for partial disclosure as I read it, it calls for full disclosure. See the  
next comment.

>  
> I have shared it, and will continue to share it, with everyone that  
> develops a working application that requires it.

Since there appears to be a legitimate reason not to disclose this, then  
you need to include the above statement and process in the APRSSPEC.  
In other words, go on record both with the process to obtain the  
validation number as well as your commitment to do so along with  
any conditions you may have. And put this in the spec. Also, it  
might not hurt to put that specific "secret" algorithm in escrow  
in case something were to happen, and you were unable to provide  
it, it could still be obtained.

If you still don't agree with me... fine, but lets let the WG make  
that decision, not you.... I still say there is a OMISSION  
with regards to this part of the document.

And in closing, I quote Tim Salo's excellent message of Sunday

October 10th, to which the WG was silent to. I think the spirit of what he is saying needs to be considered as well as noting he offered to do the work himself. You might consider taking him up on his offer as he clearly has a good handle on things.

73

Jeff

Tim Salo wrote on October 10th, 1999:

```
> > Subject: [aprsspec] Re: Omission: Internet APRS protocol specification
> > Date: Fri, 8 Oct 1999 11:36:33 -0500
> > From: Steve Dimse K4HG <k4hg@tapr.org>
> >
> > APRServe uses the text output of the TNC, so there is no separate
> > protocol to be documented.
>
> I am not entirely convinced that this is the case.
>
> I believe that the objective of a protocol specification is to enable the
> development of interoperable implementations. I don't believe that the APRS
> protocol specification, as it is currently envisioned, will be adequate to
> permit the development interoperable APRServe or IGate implementations.
>
> The APRServe/IGate protocol specification might include the following:
>
> o   A brief overview of the APRServe/IGate system
>
> o   A description of the APRServe/IGate protocol (e.g., text strings
>       transported over the telnet protocol)
>
> o   The format of messages forwarded by the APRS/IGate system, which appear
>       to be either in the TNC-2 MONitor command output format or the
>       Timewave/AEA MONitor command output format, (or, some software seems to
>       munge the two formats together in one packet). Somewhere I drafted ABNF
>       descriptions of the TNC-2 and Timewave/AEA MONitor command output
>       formats.
>
> o   The IGate status protocol (identified by the "<" APRS protocol
>       identifier, but listed as "reserved" in the current APRS protocol
>       specification)
>
>       <IGATE MSG_CNT=nnn LOC_CNT=nnn FILL_CNT=nnn
>
> o   APRServe/IGate comments ("#" in the first column of a line)
```

- >
- > o   APRServe/IGate port numbers
- >
- >     -     23
- >     -     10151
- >     -     14579
- >     -     1313
- >     -     ...
- >
- > o   A description of the redundant frames that are ignored
- >
- > o   A description of any MIC-E translations
- >
- > o   The APRServe/IGate authentication protocol, or at least a hint that one exists
- >
- > o   A description of the characters that the APRServe/IGate system does and doesn't forward
- >
- > o   A description of the call signs that the APRServe/IGate system use that don't conform to the AX.25 specification (i.e., calls longer than six characters)
- >
- > o   Probably a bunch of other stuff I forgot or don't know...

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 00:19:00 1999  
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
       by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA10535  
       for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 20:15:20 -0500 (CDT)  
 Message-Id: <LYR11594-44846-1999.10.13-20.27.13--wd5ivd#tapr.org@lists.tapr.org>  
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
 cc: Steve Dimse K4HG <k4hg@tapr.org>,  
     APRS Spec Discussion List <aprsspec@lists.tapr.org>  
 Subject: [aprsspec] Re: PROTEST: Internet APRS protocol specification  
 In-reply-to: Your message of "Wed, 13 Oct 1999 21:00:16 EDT."  
             <38052B20.16D7DB56@aerodata.net>  
 Date: Wed, 13 Oct 1999 21:14:47 -0400  
 From: John Ackermann <jra@febo.com>  
 List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
 List-Software: Lyris Server version 3.0  
 List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
 List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
 X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199910140114.VAA14936@meow.febo.com>

Sender: bounce-aprsspec-11594@lists.tapir.org

Precedence: bulk

Status:

Jeff, I've noted your request and will make sure that it's included on the list of items for discussion.

However, I think I need to say that the group didn't contemplate that the comment process would include anything like a "protest" and I do not believe that they feel obligated to accede to external requests for formal votes. I suspect that your request will be considered in the same way as the other comments received, and the WG may or may not have a vote on it.

John

-----

In message <38052B20.16D7DB56@aerodata.net>, Jeff King writes:

>Steve:

>

>As we apparently disagree on what and even if any internet specific  
>spec information needs to be included in the first draft of  
>APRSSPEC, I will ask that a PROTEST be entered and refer  
>this matter to the WG for vote. The issue in question is what  
>actually was agreed upon, in writing, by the WG to provide  
>as it relates to internet specifications in the first draft (see my comments  
>later for more detail).

>

>John, can you see that this happens? (as well as read along here)

>

>Now some specifics on what you last said.

>

>Steve Dimse K4HG wrote:

>

>> On 10/8/99 1:02 PM Jeff King (jeff@aerodata.net) wrote:

>>

>> >Steve:

>> >

>> >The purpose of the APRSSPEC, as I understand it, is so someone presently  
>> >outside of the present authors can develop APRS compatible display and  
>> >tracking issues. In other words, to make APRS "Open Source".

>> >

>> >As APRSSERVE is a integral part of this, it is imperative that it also be  
>> >documented, as is spelled out in the agreement that the WG, which you  
>> >are a member of, came to agreement upon.

>> >

>> The is nothing hidden in APRServe, other than the password algorithm. It  
>> is all documented in my various DCC papers and web site files.

>

>Then we need LINKS to these documents.... The APRSSPEC  
>is supposed to be a freestanding reference document. It should include this da  
>ta  
>  
>or at least the links so someone not with your knowledge can develop a  
>APRS internet linked application.  
>  
>  
>> The APRS  
>> WG charter very specifically states that it deals with the protocol  
>> itself, not the user interface or other related issues.  
>  
>It has nothing to do with user interfaces. We are talking raw  
>protocol and specs here. I've already made this clear.  
>  
>> At some point we  
>> will likely expand the charter to include other topics like the internet  
>> system and XML spec, but we must be more focused at this time.  
>  
>The TAPR announcement 2 \*specifically\* states internet  
>protocols NOW. Not deferred, not later, not real soon now. Its says  
>with the FIRST DRAFT which is the process we are doing now.  
>We are not talking about XML, but what is presently being used.  
>  
>I quote from announcement2.pdf, on page 3, paragraph 1:  
>  
>>Protocol Committee  
>>The APRS Protocol Specification is the formal definition of the data elements  
>and  
>>message formats used to communicate between APRS devices via wireless or wire  
>d  
>>(e.g., Internet) connections. It does not include user interface or other  
>elements that  
>>do not affect the content or format of these interface components.  
>  
>Then from paragraph 3 it states:  
>  
>>The Protocol Committee intends to publish Version 1.0 of the APRS Protocol  
>>Specification by the end of October 1999. The first draft of the Specificatio  
>n  
>will be  
>>made available to the amateur radio community by the end of June 1999, and  
>>comments will be accepted as defined below.  
>  
>This may be the key to the disagreement here. Is it your thinking that the  
>document is wrong and does not call for the internet specs to be released  
>with the first draft, as it seems to state?  
>

>  
>> >While you are correct, it does use the "text output" of the TNC, there are  
>> >other issues that need to be documented. For example, the tcp/ip port  
>> >numbers that APRSSERVE uses.  
>>  
>> These are on the web site, and there is no need for another application  
>> to use the same port numbers in any case.  
>  
>You've said that to me before, and I've never been able to find them. Even if  
>this is true, YOU STILL NEED TO DOCUMENT THEM IN THE  
>APRSSPEC. And if your trying to claim server PORT NUMBERS are  
>an operational issue, then you should note that APRS operational specs are  
>also in the spec. But port numbers are commonly ASSIGNED to specific  
>apps, hence it is my claim they are NOT operational issues but SPEC  
>issues.  
>  
>They need to be in APRSSPEC.  
>  
>  
>> >Without this information, it would require reverse engineering  
>> >of APRServe to develop a internet capable "APRS display" application.  
>>  
>> Wrong. With the APRS protocol spec, you have everything you need to write  
>> such an application.  
>  
>Port numbers? Authentication? the process to connect to the server?, the  
>status messages on port 14501? NONE OF IT IS THERE. Its needs to be  
>referenced in the APRSSPEC document.  
>  
>  
>> >Or look at it another way. You need to write a description, so a programmer  
>> >with the basic understanding of APRS, can successfully write a APRServe  
>> >application without to many questions to you. Without the tcp port numbers,  
>> >as well as the RF messaging authentication, I fail to see how this can be  
>> >done.  
>> >  
>> The only thing secret is the actual algorithm for converting a callsign  
>> to a validation number. This must remain a secret or else there is no  
>> reason to have it at all, and every IGate operator's license is at risk.  
>  
>While this may very well be true, the charter of the WG doesn't call  
>for partial disclosure as I read it, it calls for full disclosure. See the  
>next comment.  
>  
>>  
>> I have shared it, and will continue to share it, with everyone that  
>> develops a working application that requires it.  
>

>Since there appears to be a legitimate reason not to disclose this, then  
>you need to include the above statement and process in the APRSSPEC.  
>In other words, go on record both with the process to obtain the  
>validation number as well as your commitment to do so along with  
>any conditions you may have. And put this in the spec. Also, it  
>might not hurt to put that specific "secret" algorithm in escrow  
>in case something were to happen, and you were unable to provide  
>it, it could still be obtained.  
>  
>If you still don't agree with me... fine, but lets let the WG make  
>that decision, not you.... I still say there is a OMISSION  
>with regards to this part of the document.  
>  
>And in closing, I quote Tim Salo's excellent message of Sunday  
>October 10th, to which the WG was silent to. I think the spirit  
>of what he is saying needs to be considered as well as noting  
>he offered to do the work himself. You might consider taking  
>him up on his offer as he clearly has a good handle on things.  
>  
>73  
>  
>Jeff  
>  
>  
>  
>Tim Salo wrote on October 10th, 1999:  
>  
>> > Subject: [aprsspec] Re: Omission: Internet APRS protocol specification  
>> > Date: Fri, 8 Oct 1999 11:36:33 -0500  
>> > From: Steve Dimse K4HG <k4hg@tapr.org>  
>> >  
>> > APRServe uses the text output of the TNC, so there is no separate  
>> > protocol to be documented.  
>>  
>> I am not entirely convinced that this is the case.  
>>  
>> I believe that the objective of a protocol specification is to enable the  
>> development of interoperable implementations. I don't believe that the APRS  
>> protocol specification, as it is currently envisioned, will be adequate to  
>> permit the development interoperable APRServe or IGate implementations.  
>>  
>> The APRServe/IGate protocol specification might include the following:  
>>  
>> o A brief overview of the APRServe/IGate system  
>>  
>> o A description of the APRServe/IGate protocol (e.g., text strings  
>> transported over the telnet protocol)  
>>



```

>> o   The format of messages forwarded by the APRS/IGate system, which appear
>>       to be either in the TNC-2 MONitor command output format or the
>>       Timewave/AEA MONitor command output format, (or, some software seems to
>>       munge the two formats together in one packet).  Somewhere I drafted ABN
>F
>>       descriptions of the TNC-2 and Timewave/AEA MONitor command output
>>       formats.
>>
>> o   The IGate status protocol (identified by the "<" APRS protocol
>>       identifier, but listed as "reserved" in the current APRS protocol
>>       specification)
>>
>>       <IGATE MSG_CNT=nnn LOC_CNT=nnn FILL_CNT=nnn
>>
>> o   APRServe/IGate comments ("#" in the first column of a line)
>>
>> o   APRServe/IGate port numbers
>>
>>       -      23
>>       -     10151
>>       -     14579
>>       -     1313
>>       -      ...
>>
>> o   A description of the redundant frames that are ignored
>>
>> o   A description of any MIC-E translations
>>
>> o   The APRServe/IGate authentication protocol, or at least a hint that one
>>       exists
>>
>> o   A description of the characters that the APRServe/IGate system does and
>>       doesn't forward
>>
>> o   A description of the call signs that the APRServe/IGate system use that
>>       don't conform to the AX.25 specification (i.e., calls longer than six
>>       characters)
>>
>> o   Probably a bunch of other stuff I forgot or don't know...

```

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 00:19:00 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
 by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA11294  
 for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 20:44:44 -0500 (CDT)

Message-ID: <LYR11594-44849-1999.10.13-20.56.37--wd5ivd#tapr.org@lists.tapr.org>  
Date: Wed, 13 Oct 1999 21:44:35 -0400  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,  
Steve Dimse K4HG <k4hg@tapr.org>  
Subject: [aprsspec] Re: PROTEST: Internet APRS protocol specification  
References: <LYR11601-44846-1999.10.13-20.27.13--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38053582.B5F85E13@aerodata.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

John Ackermann wrote:

> However, I think I need to say that the group didn't contemplate that  
> the comment process would include anything like a "protest" and I do not  
> believe that they feel obligated to accede to external requests for formal  
> votes.

Understood. But the question here is does the WG feel obligated to  
comply with written agreements they all(?) agreed to? This is  
a serious issue and what my "PROTEST" was meant to address.

What is your reading of the agreement? Should  
internet specs be released with the first draft, as apparently is  
stated in announcement2.pdf? We have had  
two or three non-WG people say yes, they should be, and one  
WG member say no, they will not be. What do you think?

And what really is the true spirit  
of the APRSSPEC? Mumbo jumbo or something that really  
can be useful to a third party developer? This is the root issue,  
and the one I hope the WG set out to resolve.

Thanks

-Jeff

```
> >>
> >> I believe that the objective of a protocol specification is to enable the
> >> development of interoperable implementations. I don't believe that the APRS
> >> protocol specification, as it is currently envisioned, will be adequate to
> >> permit the development interoperable APRServe or IGate implementations.
> >>
> >> The APRServe/IGate protocol specification might include the following:
> >>
> >> o    A brief overview of the APRServe/IGate system
> >>
> >> o    A description of the APRServe/IGate protocol (e.g., text strings
> >>         transported over the telnet protocol)
> >>
> >> o    The format of messages forwarded by the APRS/IGate system, which appear
> >>         to be either in the TNC-2 MONitor command output format or the
> >>         Timewave/AEA MONitor command output format, (or, some software seems to
> >>         munge the two formats together in one packet). Somewhere I drafted ABN
> >F
> >>         descriptions of the TNC-2 and Timewave/AEA MONitor command output
> >>         formats.
> >>
> >> o    The IGate status protocol (identified by the "<" APRS protocol
> >>         identifier, but listed as "reserved" in the current APRS protocol
> >>         specification)
> >>
> >>         <IGATE MSG_CNT=nnn LOC_CNT=nnn FILL_CNT=nnn
> >>
> >> o    APRServe/IGate comments ("#" in the first column of a line)
> >>
> >> o    APRServe/IGate port numbers
> >>
> >>         -      23
> >>         -     10151
> >>         -     14579
> >>         -     1313
> >>         -      ...
> >>
> >> o    A description of the redundant frames that are ignored
> >>
> >> o    A description of any MIC-E translations
> >>
> >> o    The APRServe/IGate authentication protocol, or at least a hint that one
```

> >> exists  
> >>  
> >> o A description of the characters that the APRServe/IGate system does and  
> >> doesn't forward  
> >>  
> >> o A description of the call signs that the APRServe/IGate system use that  
> >> don't conform to the AX.25 specification (i.e., calls longer than six  
> >> characters)  
> >>  
> >> o Probably a bunch of other stuff I forgot or don't know...  
>  
> ---  
> You are currently subscribed to aprsspec as: jeff@aerodata.net  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

---  
You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Thu Oct 14 00:19:01 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id VAA12238  
for <wd5ivd@tappr.org>; Wed, 13 Oct 1999 21:09:37 -0500 (CDT)  
Message-Id: <LYR11594-44850-1999.10.13-21.21.20--wd5ivd#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: John Ackermann <jra@febo.com>,  
APRS Spec Discussion List <aprsspec@lists.tappr.org>,  
Steve Dimse K4HG <k4hg@tappr.org>, jra@meow.febo.com  
Subject: [aprsspec] Re: PROTEST: Internet APRS protocol specification  
In-reply-to: Your message of "Wed, 13 Oct 1999 21:44:35 EDT."  
<38053582.B5F85E13@aerodata.net>  
Date: Wed, 13 Oct 1999 22:09:09 -0400  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199910140209.WAA15067@meow.febo.com>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

In message <38053582.B5F85E13@aerodata.net>, Jeff King writes:  
>  
>  
>John Ackermann wrote:

>  
>> However, I think I need to say that the group didn't contemplate that  
>> the comment process would include anything like a "protest" and I do not  
>> believe that they feel obligated to accede to external requests for formal  
>> votes.  
>  
>Understood. But the question here is does the WG feel obligated to  
>comply with written agreements they all(?) agreed to? This is  
>a serious issue and what my "PROTEST" was meant to address.

Jeff, I can't speak for the group on what they think should or shouldn't be part of the specification. But as a very practical matter, the focus now is to document the on-air protocol and that is what the draft is addressing. Believe me, there's plenty to do in that space!

The group members are all subscribed to this list, so they've heard your arguments (in addition to my more formal transmittal that will come at the close of the comment period). I can't say what they'll decide (and, by the way, I don't have a vote except as a tie-breaker), but I can say that your request has been heard.

John

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 00:19:05 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA12599  
for <wd5ivd@tapr.org>; Wed, 13 Oct 1999 21:22:10 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-44852-1999.10.13-21.34.01--wd5ivd#tapr.org@lists.tapr.org>  
References: <199910121345.GAA09994@goose.prod.itd.earthlink.net>  
<LYR11588-44844-1999.10.13-20.11.35--ksproul#vger.rutgers.edu@lists.tapr.org>  
Date: Wed, 13 Oct 1999 22:20:43 -0400  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: PROTEST: Internet APRS protocol specification  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205500b42ae7671de4@[165.230.139.231]>

<LYR11588-44844-1999.10.13-20.11.35--ksproul#vger.rutgers.edu@lists.tapr.org>

Sender: bounce-aprsspec-11594@lists.tapr.org

Precedence: bulk

Status:

Jeff..

I think you are missing the point..

I agree, a person SHOULD be able to write an application that receives data from the internet using JUST the APRS-Spec document.

I feel that they CAN write such an application with just what is being presented. There is NO extra information needed..

The FIRST person to hook up MacAPRS to the Internet was someone OTHER than me.. I don't even know if Steve was first or not..

However did it, did it WITHOUT any help from me, in fact, they did it without me knowing it COULD be done..

This is going to take a little bit of explaining so bear with me a minute..

The Macintosh has a Communications structure called the COMM TOOLBOX. There are MANY different CONNECTION TOOLS. The USER sets up the COMM TOOLBOX from the SETTINGS menu of any program that uses the COMM TOOLBOX.

Some of the common TOOLBOX connections are:

- SERIAL TOOL
- MODEM TOOL
- TCP/IP TOOL
- etc

Each of these tools has parameters that have to be set BY THE USER so they will work.

To use MacAPRS with a TNC, you use the SERIAL TOOL and configure it to be 9600 baud (or what-ever), 8 Bits, 1 stop, no parity etc.. And you select which port you are going to use.

To configure a communications program using the MODEM tool, you set up the baud rate, the phone number, the data bits, the stop bits, the parity, etc, and you select which port you are going to use.

To configure a program to use the TCP/IP tool, you set up the HOST NAME and the CONNECTION PORT, the DEFAULT for Telnet is 23.

Now, the person that FIRST used MacAPRS on the Internet found a TCP/IP tool that -I- did not know about at the time, and configured it to talk to WA4DSY's TCP/IP based APRS reflector (for lack of a better name).

LOW AND BEHOLD, MacAPRS was ON THE INTERNET, and WORKING!!!!!!!!!!

There was NO, I repeat, NO, ZERO, NONE, ZIP, extra work on my part to make it work, it JUST WORKED..

The REASON why it worked is the PROTOCOL is no different..

Now, since that time, we have added the THIRD PARTY TRAFFIC concept, which -IS- documented in the spec (it may not be complete, but it -IS- there)

As for someone wanting to write their own version of an APRS Server, the functions of the internal workings of the program(s) is NOT part of the spec.

The functionality of a SERVER is not really part of the Spec.

The data that the server has to understand, is really ZERO if you get down to it, take data in (-ANY- data) reflect it back out..

Now since Windows does not have a slick communications tool box system like the Macintosh, we had to write EXTRA code to make it receive the data via TCP/IP,, But we did not write ANY extra code to decode that data.

On the other end of the stuff with a server.. The only 'standards' are that most people are using is

Port 10151 for ALL of the data  
Port 144390 for the LOCAL data only..

There is NOTHING that says a person has to do this, nor is there any real reason to insist that the operator of a server even stick to this 'standard'.. Therefore, this fact is NOT part of the spec in any way shape or form.

If someone wanted to say this was the STANDARD, then someone in Europe that uses a different port would complain because they do not use 144390, same goes for Australia and other parts of the world.

The ONLY thing that is not being divulged is the hash codes, and Steve will give that to anyone that is ready for it and will agree not to release it to the public..

Keith

>Steve:

>

>As we apparently disagree on what and even if any internet specific  
>spec information needs to be included in the first draft of  
>APRSSPEC, I will ask that a PROTEST be entered and refer  
>this matter to the WG for vote. The issue in question is what  
>actually was agreed upon, in writing, by the WG to provide  
>as it relates to internet specifications in the first draft (see my comments  
>later for more detail).

>

>John, can you see that this happens? (as well as read along here)

>

>Now some specifics on what you last said.

>

>Steve Dimse K4HG wrote:

>

> > On 10/8/99 1:02 PM Jeff King (jeff@aerodata.net) wrote:

> >

> > >Steve:

> > >

> > >The purpose of the APRSSPEC, as I understand it, is so someone presently  
> > >outside of the present authors can develop APRS compatible display and  
> > >tracking issues. In other words, to make APRS "Open Source".

> > >

> > >As APRSSERVE is a integral part of this, it is imperative that it also be  
> > >documented, as is spelled out in the agreement that the WG, which you  
> > >are a member of, came to agreement upon.

> > >

> > The is nothing hidden in APRSServe, other than the password algorithm. It  
> > is all documented in my various DCC papers and web site files.

>

>Then we need LINKS to these documents.... The APRSSPEC  
>is supposed to be a freestanding reference document. It should  
>include this data

>



>or at least the links so someone not with your knowledge can develop a  
>APRS internet linked application.  
>  
>  
> > The APRS  
> > WG charter very specifically states that it deals with the protocol  
> > itself, not the user interface or other related issues.  
>  
>It has nothing to do with user interfaces. We are talking raw  
>protocol and specs here. I've already made this clear.  
>  
> > At some point we  
> > will likely expand the charter to include other topics like the internet  
> > system and XML spec, but we must be more focused at this time.  
>  
>The TAPR announcement 2 \*specifically\* states internet  
>protocols NOW. Not deferred, not later, not real soon now. Its says  
>with the FIRST DRAFT which is the process we are doing now.  
>We are not talking about XML, but what is presently being used.  
>  
>I quote from announcement2.pdf, on page 3, paragraph 1:  
>  
> >Protocol Committee  
> >The APRS Protocol Specification is the formal definition of the  
>data elements  
>and  
> >message formats used to communicate between APRS devices via  
>wireless or wired  
> >(e.g., Internet) connections. It does not include user interface or other  
>elements that  
> >do not affect the content or format of these interface components.  
>  
>Then from paragraph 3 it states:  
>  
> >The Protocol Committee intends to publish Version 1.0 of the APRS Protocol  
> >Specification by the end of October 1999. The first draft of the  
>Specification  
>will be  
> >made available to the amateur radio community by the end of June 1999, and  
> >comments will be accepted as defined below.  
>  
>This may be the key to the disagreement here. Is it your thinking that the  
>document is wrong and does not call for the internet specs to be released  
>with the first draft, as it seems to state?  
>  
>  
> > >While you are correct, it does use the "text output" of the TNC, there are  
> > >other issues that need to be documented. For example, the tcp/ip port

> > >numbers that APRSSERVE uses.  
> >  
> > These are on the web site, and there is no need for another application  
> > to use the same port numbers in any case.  
>  
>You've said that to me before, and I've never been able to find them. Even if  
>this is true, YOU STILL NEED TO DOCUMENT THEM IN THE  
>APRSSPEC. And if your trying to claim server PORT NUMBERS are  
>an operational issue, then you should note that APRS operational specs are  
>also in the spec. But port numbers are commonly ASSIGNED to specific  
>apps, hence it is my claim they are NOT operational issues but SPEC  
>issues.  
>  
>They need to be in APRSSPEC.  
>  
>  
> > >Without this information, it would require reverse engineering  
> > >of APRServe to develop a internet capable "APRS display" application.  
> >  
> > Wrong. With the APRS protocol spec, you have everything you need to write  
> > such an application.  
>  
>Port numbers? Authentication? the process to connect to the server?, the  
>status messages on port 14501? NONE OF IT IS THERE. Its needs to be  
>referenced in the APRSSPEC document.  
>  
>  
> > >Or look at it another way. You need to write a description, so a  
>programmer  
> > >with the basic understanding of APRS, can successfully write a APRServe  
> > >application without to many questions to you. Without the tcp  
>port numbers,  
> > >as well as the RF messaging authentication, I fail to see how this can be  
> > >done.  
> > >  
> > The only thing secret is the actual algorithm for converting a callsign  
> > to a validation number. This must remain a secret or else there is no  
> > reason to have it at all, and every IGate operator's license is at risk.  
>  
>While this may very well be true, the charter of the WG doesn't call  
>for partial disclosure as I read it, it calls for full disclosure. See the  
>next comment.  
>  
> >  
> > I have shared it, and will continue to share it, with everyone that  
> > develops a working application that requires it.  
>  
>Since there appears to be a legitimate reason not to disclose this, then

>you need to include the above statement and process in the APRSSPEC.  
>In other words, go on record both with the process to obtain the  
>validation number as well as your commitment to do so along with  
>any conditions you may have. And put this in the spec. Also, it  
>might not hurt to put that specific "secret" algorithm in escrow  
>in case something were to happen, and you were unable to provide  
>it, it could still be obtained.  
>  
>If you still don't agree with me... fine, but lets let the WG make  
>that decision, not you.... I still say there is a OMISSION  
>with regards to this part of the document.  
>  
>And in closing, I quote Tim Salo's excellent message of Sunday  
>October 10th, to which the WG was silent to. I think the spirit  
>of what he is saying needs to be considered as well as noting  
>he offered to do the work himself. You might consider taking  
>him up on his offer as he clearly has a good handle on things.  
>  
>73  
>  
>Jeff  
>  
>  
>  
>Tim Salo wrote on October 10th, 1999:  
>  
> > > Subject: [aprsspec] Re: Omission: Internet APRS protocol specification  
> > > Date: Fri, 8 Oct 1999 11:36:33 -0500  
> > > From: Steve Dimse K4HG <k4hg@tapr.org>  
> > >  
> > > APRServe uses the text output of the TNC, so there is no separate  
> > > protocol to be documented.  
> >  
> > I am not entirely convinced that this is the case.  
> >  
> > I believe that the objective of a protocol specification is to enable the  
> > development of interoperable implementations. I don't believe  
>that the APRS  
> > protocol specification, as it is currently envisioned, will be adequate to  
> > permit the development interoperable APRServe or IGate implementations.  
> >  
> > The APRServe/IGate protocol specification might include the following:  
> >  
> > o A brief overview of the APRServe/IGate system  
> >  
> > o A description of the APRServe/IGate protocol (e.g., text strings  
> > transported over the telnet protocol)  
> >

```

> > o   The format of messages forwarded by the APRS/IGate system,
>which appear
> >       to be either in the TNC-2 MONitor command output format or the
> >       Timewave/AEA MONitor command output format, (or, some
>software seems to
> >       munge the two formats together in one packet). Somewhere I
>drafted ABNF
> >       descriptions of the TNC-2 and Timewave/AEA MONitor command output
> >       formats.
> >
> > o   The IGate status protocol (identified by the "<" APRS protocol
> >       identifier, but listed as "reserved" in the current APRS protocol
> >       specification)
> >
> >       <IGATE MSG_CNT=nnn LOC_CNT=nnn FILL_CNT=nnn
> >
> > o   APRServe/IGate comments ("#" in the first column of a line)
> >
> > o   APRServe/IGate port numbers
> >
> >       -      23
> >       -     10151
> >       -     14579
> >       -     1313
> >       -      ...
> >
> > o   A description of the redundant frames that are ignored
> >
> > o   A description of any MIC-E translations
> >
> > o   The APRServe/IGate authentication protocol, or at least a
>hint that one
> >       exists
> >
> > o   A description of the characters that the APRServe/IGate
>system does and
> >       doesn't forward
> >
> > o   A description of the call signs that the APRServe/IGate
>system use that
> >       don't conform to the AX.25 specification (i.e., calls longer than six
> >       characters)
> >
> > o   Probably a bunch of other stuff I forgot or don't know...
>
>
>---
>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu

```

>To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tappr.org](mailto:leave-aprsspec-11594T@lists.tappr.org)

|                                                                                   |                     |
|-----------------------------------------------------------------------------------|---------------------|
| Keith Sproul                                                                      | 732 445-3695 Office |
| Student Housing Network Coordinator                                               | 732 445-2968 Fax    |
| <a href="mailto:ksproul@rci.rutgers.edu">mailto:ksproul@rci.rutgers.edu</a>       | 732 821-4828 Home   |
| <a href="http://dorm.rutgers.edu/~ksproul/">http://dorm.rutgers.edu/~ksproul/</a> | WU2Z                |

---

You are currently subscribed to aprsspec as: [wd5ivd@tappr.org](mailto:wd5ivd@tappr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tappr.org](mailto:leave-aprsspec-11594T@lists.tappr.org)

From ???@??? Thu Oct 14 00:19:09 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.11) with SMTP id VAA13039

for <[wd5ivd@tappr.org](mailto:wd5ivd@tappr.org)>; Wed, 13 Oct 1999 21:44:48 -0500 (CDT)

Message-ID: <LYR11594-44855-1999.10.13-21.56.31--wd5ivd#tappr.org@lists.tappr.org>

From: "Scott Morris" <[smorris@mindspring.com](mailto:smorris@mindspring.com)>

To: "APRS Spec Discussion List" <[aprsspec@lists.tappr.org](mailto:aprsspec@lists.tappr.org)>

Cc: <[aprsspec@lists.tappr.org](mailto:aprsspec@lists.tappr.org)>

References:

<199910121345.GAA09994@goose.prod.itd.earthlink.net><LYR11588-44844-1999.10.13-20.11.35--ksproul#vger.rutgers.edu@lists.tappr.org>

<LYR11686-44852-1999.10.13-21.34.01--smorris#mindspring.com@lists.tappr.org>

Subject: [aprsspec] Re: PROTEST: Internet APRS protocol specification

Date: Wed, 13 Oct 1999 22:44:42 -0400

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200

List-Unsubscribe: <<mailto:leave-aprsspec-11594T@lists.tappr.org>>

List-Software: Lyrus Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>

X-Message-Id: <000201bf15ee\$627fb6c0\$0501a8c0@smorris>

Sender: [bounce-aprsspec-11594@lists.tappr.org](mailto:bounce-aprsspec-11594@lists.tappr.org)

Precedence: bulk

Status:

I have read much of the information passed by on this subject, and understand some of it. I have a suggestion for implementation on the Internet addition. I am by no means an expert. My expertise is in Data Communications, LANs and WANs and switching.

The APRS spec is version 1.0, let's go one step at a time. If we advance this in a step process covering one aspect at a time there will be less

margin for error. Let 1.0 provide a spec for APRS itself, then maybe 1.1 provide for implementation for the Internet.

The Internet is made up of many specs. There is one for ip addressing, and then there is another one for TCP and UDP. Each is separate, and the one depends on the other. Maybe the APRS Internet implementation needs to be looked at in a layered approach. If we try and build it all at once it will take forever, because the more people that provide input the more requests there will be.

One alternative is to just encapsulate the APRS packet within a defined Server packet. The Server packet could have its own header, and the APRS packet is contained within. This technique is done on networks all over, in Frame Relay, PPP, ATM, and many others. I support both LANs and WANs and have had to deal with this methodology.

I don't feel anyone is trying to hide anything, and up until now APRS seems to work quite well, many have developed software to read and interpret the packets. You can now connect a Palm Pilot to see the data come straight off of the equipment.

The APRSSPEC listserv is there for everyone to provide comment, and peoples comment has provided. Hopefully all the members of the WG are also on the list, and they will take everyone's input into account.

This is just my opinion and a few suggestions.

73's (and I mean that deeply to all)

Scott Morris, KF4SNV

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 00:56:46 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id AAA25154

for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 00:49:22 -0500 (CDT)

Message-ID: <LYR11594-44883-1999.10.14-01.01.06--wd5ivd#tapr.org@lists.tapr.org>

From: "Dave VanHorn" <dvanhorn@cedar.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Fw: Serial questions. (after @home crash)

Date: Thu, 14 Oct 1999 00:48:01 -0500

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <012201bf1607\$ad7e9740\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> (This may be a dupe, but my previous post didn't make it apparently)  
> I have a a few questions, and maybe this is something that needs to be in  
> the spec too..  
>  
> WRT the serial interface, do the various versions of APRS do hardware  
> handshake, Xon/Xoff, or nothing?  
>  
> Is the serial word format defined? 8N1 702... ? I'm assuming 8N1 at this  
> point.  
>  
> I am writing code for a DF unit that will speak to APRS at minimum 19200,  
> preferrably faster, and pass it data from GPS, TNC, DF, and another  
device,  
> possibly an NMEA compass, and I am wondering about the ability of APRS to  
> take that data stream. I can do either mode of handshaking. (RTS/CTS  
vastly  
> preferred)  
>  
> Do they all (or any) have the ability to receive NMEA data and DF data on  
> the same port that the TNC is talking to? What NMEA sentences are  
> supported/required? I have the ability and resources to translate  
whatever  
> I get to a standard format, so I don't necessarily have to use NMEA GPS  
> units, anything with a documented (or hackable) protocol will be fine, but  
I  
> need to know what NMEA sentences APRS needs to function properly.  
>  
> I know in the past this has been done with a switch arraignment, but  
given  
> that APRS expects data on the serial port to be error-free, this seems  
> unwise to me, as there was no mechanism to prevent chopping the other  
> device's datastream in mid-flow. This results in half-packets, munged data  
> and callsigns. My approach is to buffer the data and present it to APRS  
in

> ordered groups, so that none of the data is lost or destroyed.  
>  
> I did notice that the N8LUE DF format is discussed, but not the Agrelo, or  
> any others if they exist. The first char of the agrelo/micro-finder format  
> is defined, but not the rest.  
>  
> FWIW, Agrelo is defunct, and I am working with Steve at SWS to move that  
> product line forward. There will likely be no more DF Jrs, or sadly,  
> Micro-PLLs, unless Steve produces them. On a positive note, our new DF  
> system is approaching alpha prototype stage, with PCBs just over a week  
> away. It's been protoed once already, as a single processor system to  
test  
> the concepts, but that hardware wouldn't have survived the mobile  
> development environment.  
>  
> I will probably support the agrelo format for my own data, and I have  
> discussed with the Sprouls, sending NMEA TTM messages, but it's looking  
more  
> like I shouldn't be the one creating TTM messages, as I may not have  
enough  
> data.  
>  
>

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 06:10:41 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id GAA09931  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 06:03:18 -0500 (CDT)  
Message-ID: <LYR11594-44889-1999.10.14-06.15.04--wd5ivd#tapr.org@lists.tapr.org>  
Date: Thu, 14 Oct 1999 07:01:52 -0400  
From: PropNET <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Suggestion for Clarity was: [PROTEST: . . .]  
References: <LYR11601-44846-1999.10.13-20.27.13--jeff#aerodata.net@lists.tapr.org>  
<LYR11610-44849-1999.10.13-20.56.37--propnet#greeceny.com@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>



X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <3805B820.FD735561@greeceny.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

OK...the PropNET goofball weighs in on the discussion (grin) . . .

It may be a good excersize to document the "OSI Model" on which APRS is based.  
Once  
that is done (and should be done fairly easily by those in-the-know), the WG can  
point to which areas of the model they are charged with documenting.

To clarify...it is my understanding that the WG is not charged with documenting  
the  
Application Layer (the program of WinAPRS, APRSdos, XAPRS, etc.). That seems to  
be  
the domain of the person who writes the software. Nor is it charged with  
documenting  
the protocols of the Physical Layer (how a radio interacts with the ether to get  
the  
information from one point to the other). That is already done by reading the  
schematic that comes with the radio.

Their activity seems to be somewhere in-between.

An "OSI Model for APRS" would help us "observers" to focus more.

-- Ev, W2EV --

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 08:40:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA13971  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 08:33:27 -0500 (CDT)  
Message-ID: <LYR11594-44903-1999.10.14-08.45.17--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-44758-1999.10.13-08.08.06--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Serial handling, at the hardware level, and some DF questions.  
Date: Wed, 13 Oct 1999 14:49:31 -0500  
MIME-Version: 1.0

Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <006d01bf15b4\$11c0ae40\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I have a a few questions, and maybe this is something that needs to be in the spec too..

WRT the serial interface, do the various versions of APRS do hardware handshake, Xon/Xoff, or nothing?

Is the serial word format defined? 8N1 702... ? I'm assuming 8N1 at this point.

I am writing code for a DF unit that will speak to APRS at minimum 19200, preferrably faster, and pass it data from GPS, TNC, DF, and another device, possibly an NMEA compass, and I am wondering about the ability of APRS to take that data stream. I can do either mode of handshaking. (RTS/CTS vastly preferred)

Do they all (or any) have the ability to receive NMEA data and DF data on the same port that the TNC is talking to? What NMEA sentences are supported/required? I have the ability and resources to translate whatever I get to a standard format, so I don't necessarily have to use NMEA GPS units, anything with a documented (or hackable) protocol will be fine, but I need to know what NMEA sentences APRS needs to function properly.

I know in the past this has been done with a switch arraingement, but given that APRS expects data on the serial port to be error-free, this seems unwise to me, as there was no mechanism to prevent chopping the other device's datastream in mid-flow. This results in half-packets, munged data and callsigns. My approach is to buffer the data and present it to APRS in ordered groups, so that none of the data is lost or destroyed.

I did notice that the N8LUE DF format is discussed, but not the Agrelo, or any others if they exist. The first char of the agrelo/micro-finder format is defined, but not the rest.

FWIW, Agrelo is defunct, and I am working with Steve at SWS to move that product line forward. There will likely be no more DF Jrs, or sadly, Micro-PLLs, unless Steve produces them. On a positive note, our new DF system is approaching alpha prototype stage, with PCBs just over a week away. It's been protoed once already, as a single processor system to test the concepts, but that hardware wouldn't have survived the mobile development environment.

I will probably support the agrelo format for my own data, and I have discussed with the Sprouls, sending NMEA TTM messages, but it's looking more like I shouldn't be the one creating TTM messages, as I may not have enough data.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 08:55:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA14164  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 08:40:12 -0500 (CDT)  
Date: Thu, 14 Oct 1999 08:40:00 -0500 (CDT)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11594-44904-1999.10.14-08.52.04--wd5ivd#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Suggestion for Clarity  
In-Reply-To: <LYR11595-44889-1999.10.14-06.15.04--salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910141340.IAA18667@us.networkcs.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

> Date: Thu, 14 Oct 1999 07:01:52 -0400  
> From: PropNET <propnet@greeceny.com>  
> Subject: [aprsspec] Suggestion for Clarity was: [PROTEST: . . .]  
> [...]  
> It may be a good excersize to document the "OSI Model" on which APRS is  
> based. Once that is done (and should be done fairly easily by those  
> in-the-know), the WG can point to which areas of the model they are charged  
> with documenting.

I believe that a description of the protocol layers used by the APRS system would be useful. However, I don't believe that the APRS protocols were developed with a firm notion of protocol layering in mind. For example, some protocol fields are used by different protocol layers at different times. I created a description of the APRS protocol layers, but it is not something that the APRS developers would recognize, (in part because they don't appear to be thinking in terms of protocol layers).

> To clarify...it is my understanding that the WG is not charged with  
> documenting the Application Layer (the program of WinAPRS, APRSdos, XAPRS,  
> etc.). ...  
> [...]

As long as you provided me this opportunity to be excessively pedantic, I will note that the APRS protocols are application layer protocols. What is outside the scope of the APRS specifications is the translation between the APRS protocols and what is displayed on the screen.

> An "OSI Model for APRS" would help us "observers" to focus more.

I believe that the concept of "protocol layering" is one of the most fundamental concepts upon which well-designed protocols are build. I also believe that a protocol layering model for APRS would be a valuable creation.

(As we "advance the radio art" I would like to think that we use good science, whether it be electrical engineering, computer science, or what we know about protocol development. [Sometime when I am having a bad day, I may submit a petition for rulemaking that changes Part 97 to read "advancing the radio science" so we don't get confused about this topic...])

-tjs

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 08:55:07 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA14468

for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 08:51:47 -0500 (CDT)

Message-Id: <LYR11594-44905-1999.10.14-09.03.42--wd5ivd#tapr.org@lists.tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Serial handling, at the hardware level, and some DF questions.

In-reply-to: Your message of "Wed, 13 Oct 1999 14:49:31 CDT."  
<LYR11592-44903-1999.10.14-08.45.17--n8ur#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Thu, 14 Oct 1999 09:51:34 -0400  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910141351.JAA17455@meow.febo.com>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I usually stay out of the specifics of the protocol discussion, because I don't know what I'm talking about, but I think I can answer this one on behalf of the Group.

The protocol spec is limited to the data elements and formats used over the air. It doesn't encompass anything like the serial port specs or other elements at the hardware level.

It's not that such information isn't useful, but it's beyond what the document is trying to accomplish at this point.

John N8UR  
jra@febo.com

> I have a a few questions, and maybe this is something that needs to be in  
> the spec too..  
>  
> WRT the serial interface, do the various versions of APRS do hardware  
> handshake, Xon/Xoff, or nothing?  
>  
> Is the serial word format defined? 8N1 702... ? I'm assuming 8N1 at this  
> point.  
>  
> I am writing code for a DF unit that will speak to APRS at minimum 19200,  
> preferrably faster, and pass it data from GPS, TNC, DF, and another device,  
> possibly an NMEA compass, and I am wondering about the ability of APRS to  
> take that data stream. I can do either mode of handshaking. (RTS/CTS vastly  
> preferred)  
>  
> Do they all (or any) have the ability to receive NMEA data and DF data on  
> the same port that the TNC is talking to? What NMEA sentences are

> supported/required? I have the ability and resources to translate whatever  
> I get to a standard format, so I don't necessarily have to use NMEA GPS  
> units, anything with a documented (or hackable) protocol will be fine, but I  
> need to know what NMEA sentences APRS needs to function properly.  
>  
> I know in the past this has been done with a switch arraignment, but given  
> that APRS expects data on the serial port to be error-free, this seems  
> unwise to me, as there was no mechanism to prevent chopping the other  
> device's datastream in mid-flow. This results in half-packets, munged data  
> and callsigns. My approach is to buffer the data and present it to APRS in  
> ordered groups, so that none of the data is lost or destroyed.  
>  
> I did notice that the N8LUE DF format is discussed, but not the Agrelo, or  
> any others if they exist. The first char of the agrelo/micro-finder format  
> is defined, but not the rest.  
>  
> FWIW, Agrelo is defunct, and I am working with Steve at SWS to move that  
> product line forward. There will likely be no more DF Jrs, or sadly,  
> Micro-PLLs, unless Steve produces them. On a positive note, our new DF  
> system is approaching alpha prototype stage, with PCBs just over a week  
> away. It's been protoed once already, as a single processor system to test  
> the concepts, but that hardware wouldn't have survived the mobile  
> development environment.  
>  
> I will probably support the agrelo format for my own data, and I have  
> discussed with the Sprouls, sending NMEA TTM messages, but it's looking more  
> like I shouldn't be the one creating TTM messages, as I may not have enough  
> data.  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: n8ur@tapr.org  
> To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 12:39:25 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA21357

for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 12:29:23 -0500 (CDT)

Message-Id: <LYR11594-44926-1999.10.14-12.41.16--wd5ivd#tapr.org@lists.tapr.org>

Subject: [aprsspec] Re: Help with MIC-E Protocol Spec please

Date: Thu, 14 Oct 1999 12:28:38 -0500

x-sender: sdimse@earthlink.net

From: Steve Dimse K4HG <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199910141729.KAA01591@scaup.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

On 10/10/99 10:41 AM Keith Sproul (ksproul@vger.rutgers.edu) wrote:

>Yes, you are correct.. Anyone wanting to parse stuff from the  
>Servers, MUST be able to handle both..

>

>Anyone wanting to write a program that works with TNCs in general,  
>must be able to handle both..

>

>If someone was using either KISS mode, or writing a program that was  
>ONLY for use with a certain brand of TNC, they would not have to..

>

Not exactly true. The "third party" protocol packets start with '}', and then the TNC text packet. These may be in either AEA or TNC-2 format. If you want to parse APRS packets, you need to be able to handle both formats.

Steve K4HG

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 18:17:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA02216  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 18:06:32 -0500 (CDT)  
Message-ID: <LYR11594-44977-1999.10.14-18.18.29--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-42861-1999.10.02-20.43.59--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Test  
Date: Wed, 13 Oct 1999 20:02:59 -0500  
MIME-Version: 1.0

Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <011c01bf15df\$dc1c5d80\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

I posted twice a list of questions to this list, and have seen neither copy come down the list here.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Thu Oct 14 18:17:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA02327  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 18:11:03 -0500 (CDT)  
Message-ID: <LYR11594-44978-1999.10.14-18.22.57--wd5ivd#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11608-42861-1999.10.02-20.43.59--  
dvanhorn#cedar.net@lists.tapr.org> <LYR11608-44977-1999.10.14-18.18.29--  
dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: Test  
Date: Thu, 14 Oct 1999 18:10:03 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>



X-Message-Id: <02d301bf1699\$3f6bcce0\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

> I posted twice a list of questions to this list, and have seen neither  
copy  
> come down the list here.

My emails from yesterday are trickling out from @home, Ignore this.

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Thu Oct 14 18:32:14 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id SAA02586  
for <wd5ivd@tappr.org>; Thu, 14 Oct 1999 18:18:44 -0500 (CDT)  
Message-ID: <LYR11594-44980-1999.10.14-18.30.37--wd5ivd#tappr.org@lists.tappr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
References: <LYR11608-44758-1999.10.13-08.08.06--  
dvanhorn#cedar.net@lists.tappr.org>  
Subject: [aprsspec] Serial questions.  
Date: Wed, 13 Oct 1999 19:26:57 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <009201bf15da\$d32da120\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

(This may be a dupe, but my previous post didn't make it apparently)  
I have a a few questions, and maybe this is something that needs to be in  
the spec too..

WRT the serial interface, do the various versions of APRS do hardware handshake, Xon/Xoff, or nothing?

Is the serial word format defined? 8N1 702... ? I'm assuming 8N1 at this point.

I am writing code for a DF unit that will speak to APRS at minimum 19200, preferably faster, and pass it data from GPS, TNC, DF, and another device, possibly an NMEA compass, and I am wondering about the ability of APRS to take that data stream. I can do either mode of handshaking. (RTS/CTS vastly preferred)

Do they all (or any) have the ability to receive NMEA data and DF data on the same port that the TNC is talking to? What NMEA sentences are supported/required? I have the ability and resources to translate whatever I get to a standard format, so I don't necessarily have to use NMEA GPS units, anything with a documented (or hackable) protocol will be fine, but I need to know what NMEA sentences APRS needs to function properly.

I know in the past this has been done with a switch arraignment, but given that APRS expects data on the serial port to be error-free, this seems unwise to me, as there was no mechanism to prevent chopping the other device's datastream in mid-flow. This results in half-packets, munged data and callsigns. My approach is to buffer the data and present it to APRS in ordered groups, so that none of the data is lost or destroyed.

I did notice that the N8LUE DF format is discussed, but not the Agrelo, or any others if they exist. The first char of the agrelo/micro-finder format is defined, but not the rest.

FWIW, Agrelo is defunct, and I am working with Steve at SWS to move that product line forward. There will likely be no more DF Jrs, or sadly, Micro-PLLs, unless Steve produces them. On a positive note, our new DF system is approaching alpha prototype stage, with PCBs just over a week away. It's been protoed once already, as a single processor system to test the concepts, but that hardware wouldn't have survived the mobile development environment.

I will probably support the agrelo format for my own data, and I have discussed with the Sprouls, sending NMEA TTM messages, but it's looking more like I shouldn't be the one creating TTM messages, as I may not have enough data.

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org

To unsubscribe send a blank email to [leave-aprsspec-11594T@lists.tapr.org](mailto:leave-aprsspec-11594T@lists.tapr.org)

From ???@??? Thu Oct 14 23:49:01 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id XAA12732  
for <wd5ivd@tapr.org>; Thu, 14 Oct 1999 23:39:10 -0500 (CDT)  
Message-Id: <LYR11594-45004-1999.10.14-23.51.05--wd5ivd#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 14 Oct 1999 21:38:48 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Comments  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <l03130304b42c5fa5ada0@[198.106.196.226]>  
<LYR11893-44872-1999.10.14-00.00.27--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11594@lists.tapr.org  
Precedence: bulk  
Status:

Greetings -

I've just joined the mail group after finding the draft APRS standards on the TAPR web site. Because I am in the middle of writing some APRS code, this is exactly what I have been looking for. This also means that I have been looking at the documents very critically, to see whether they answer a program writer's crucial questions.

Since I have just joined, I am not yet aware of points that may have previously been discussed. If I am covering old ground, please accept my apology.

=====  
ITEM 1:

I see major weakness in the documents in the tendency to refer to operation of existing software. For example, the Symbols document says this near the bottom of the first page discussing "symbol characters":

"Press F1-S in APRSdos to see these symbols. Some symbols may have a numeric overlay character 0-9 or A-Z. These are shown on the F1-S display with the numeral "3" overlaid."

First, it is factually incorrect because "A-Z" are not numeric

characters. But, more importantly, this style of presentation is verboten in any standard I have ever seen because it refers to a specific software implementation which is not necessarily duplicated in other implementations. That is, the description includes things that are not relevant to the protocol. Saying that a particular key is pressed or a specific menu is accessed should not be part of the protocol description. One might, perhaps, say:

"The symbol characters are intended to have an overlay character 0-9 or A-Z. Some software implementations allow you to see the character with a fixed overlay such as '3' ".

One can certainly refer to support documents for various software implementations so long as the documents are (1) widely available and (2) platform neutral.

This same problem appears in the Symbols document in "Areas".

This leads further to the observation that a color-filled area need not behave as described (and it is not even necessary that a program use a "PList"!)

A similar problem is in the "VALUE SIGNPOSTS" section. There are really two problems with this section (on the last page of Symbols document). One problem is that its vague but is a useful clarification for programmers.

The other problem is the reference to specific software implementation. One might, instead, write:

"Signposts are intended to display as a yellow box with a 1 to 3 letter overlay without name or callsign. You specify the 1-3 character overlay by enclosing them in braces in the comment field. Thus a VALUE Signpost with {55} would appear as a sign with 55 on it. This was designed for posting the speed of traffic past speed measuring devices. They can be used for any purpose. To avoid cluttering the map, they should ONLY be displayed on fine-scale maps (say, 8 miles or less)."

=====  
ITEM 2 - symbol list

A second philosophical point concerns how the symbol list is viewed. Understandably, the original (fairly small) symbol table could easily be viewed as a primary table and secondary table. Now, such a distinction seems quite uninforming. There is simply an ordered pair of characters that specify a symbol in one big table. One character pair is used by the GPSxyz format and a different character pair is used with certain position reporting

formats. There is no "primary" or "secondary" about it! This is particularly true with the changes in handling the coding of overlay characters. Once this was done, it is just "a symbol table indexed via two sets of character-pairs".

=====

I have some specific questions about the symbol list which will be sent as a separate message to avoid making this too long.

Thanks for all the great effort that everyone has put into APRS. I hope that I have not stepped on anyone's toes because that isn't my intent. I do have some frustrations, however, as a programmer, due to poor protocol descriptions and I hope that the protocol standard document will help solve that problem.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
                                         Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Sat Oct 16 02:12:38 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id BAA18485  
for <wd5ivd@tapr.org>; Sat, 16 Oct 1999 01:58:21 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11594-45256-1999.10.16-02.10.20--wd5ivd#tapr.org@lists.tapr.org>  
Date: Sat, 16 Oct 1999 01:58:20 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Robert Winingham <kc5ejk@onramp.net>  
Subject: [aprsspec] Re: Comments  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyras Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v04220500b42d175b17d0@[199.1.154.39]>  
<LYR11606-45004-1999.10.14-23.51.05--kc5ejk#onramp.net@lists.tappr.org>  
<LYR11606-45004-1999.10.14-23.51.05--kc5ejk#onramp.net@lists.tappr.org>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

>Since I have just joined, I am not yet aware of points that may have  
>previously been discussed. If I am covering old ground, please accept my  
>apology.

If this sig is not archived at www.tappr.org I have  
the mail from 1999/10/2. Eudora might be able to send it in bulk  
I have the mail count at 121 including yours (376 K).

Fills to others available via private mail.

73

----- kc5ejk@onramp.net or kc5ejk@amsat.org -----

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 18 01:38:19 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id BAA02071  
for <wd5ivd@tappr.org>; Mon, 18 Oct 1999 01:34:53 -0500 (CDT)  
Message-Id: <LYR11594-45450-1999.10.18-01.46.49--wd5ivd#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 17 Oct 1999 23:34:31 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Re: aprsspec digest: October 16, 1999  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <l03130303b4306fa0611a@[198.106.196.120]>  
<LYR11893-45340-1999.10.17-00.00.08--wagnerj#proaxis.com@lists.tappr.org>  
Sender: bounce-aprsspec-11594@lists.tappr.org

Precedence: bulk  
Status:

Here are some specific questions about the Symbols document. My point in asking these questions is two-fold. First, I would like to know their answers. Second, if I have questions, others must also.

=====  
A. GPSxyz symbol coding -

What happens to the 3rd code character in 2-character codes? Does the GPSxyz become GPSxy or does it become GPSxy(space)? That is, for a small aircraft, would one use "GPSBH " or "GPSBH"?

=====  
B. Symbol Table -

What is "HELO"? Is it short for "helicopter" or is it short for "hello"? Or, something else?

=====  
C. Symbol Table -

Does "shuttle" refer to a shuttle-bus or to the space shuttle?

=====  
D. Symbol Table -

Why the reference to "Satellite/Pacsat"? Does it refer to any satellite? Or is it to refer only to Pacsat? Then again, is not a Pacsat a satellite?

=====  
E. Areas -

What are the "offset" values references in the Area format? Offsets measured from what?

=====  
F. Typo in "HURRICANES, TROPICAL STORMS and DEPRESSIONS"...

"yellos".

=====  
G. In "SYMBOLS ON MAPS!",

how does one "permanently embed" a symbol on a map.  
Are we talking about how some program works, or are we talking about over-

the air protocol? If its over the air, how does the symbol become  
"permanent"?"

Is it transmitted forever, or does it get saved by other machines and is  
displayed forever? If it is not part of the over-the-air protocol, then why  
is it here?

=====  
H. A general plea: please more concrete examples. I am especially concerned  
about value signposts, areas, and a variety of packet types that include  
symbol characters.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
                                         Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From ???@??? Mon Oct 18 09:06:03 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA21255  
for <wd5ivd@tapr.org>; Mon, 18 Oct 1999 09:05:49 -0500 (CDT)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 18 Oct 1999 10:03:22 -0400 (EDT)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: aprsspec digest: October 16, 1999  
In-Reply-To: <LYR11586-45450-1999.10.18-01.46.49--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11594-45477-1999.10.18-09.17.53--wd5ivd#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>



X-Message-Id: <Pine.GS0.4.05L.9910181000080.10733-1000000@arctic>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

On Sun, 17 Oct 1999, Jim Wagner wrote:

> What happens to the 3rd code character in 2-character codes? Does the  
> GPSxyz become GPSxy or does it become GPSxy(space)? That is, for a  
> small aircraft, would one use "GPSBH " or "GPSBH"?

It is a callsign and is always sent by the TNC as 6 bytes IAW with the  
AX.25 spec.

> What are the "offset" values references in the Area format? Offsets measured  
> from what?

>From the LAT/LONG included in the posit.

Otehr comments noted.

Bob

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Mon Oct 18 11:20:27 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id LAA25428  
for <wd5ivd@tappr.org>; Mon, 18 Oct 1999 11:15:14 -0500 (CDT)  
Message-ID: <LYR11594-45498-1999.10.18-11.27.10--wd5ivd#tappr.org@lists.tappr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
References: <LYR11608-45477-1999.10.18-09.17.53--  
dvanhorn#cedar.net@lists.tappr.org>  
Subject: [aprsspec] Re: Observation  
Date: Mon, 18 Oct 1999 11:12:52 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>

List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <002f01bf1983\$a159f2a0\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Often, APRS is used with port-sharing devices that have the effect of trashing packets when they un-intelligently switch from one source to another.

There is no mechanism in place to prevent such trashed packets from being interpreted as valid data.

I realize that this is, again, not an on-air issue, but I think it's significant.

---

You are currently subscribed to aprsspec as: wd5ivd@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tappr.org

From ???@??? Thu Oct 21 01:21:29 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id WAA13267  
for <wd5ivd@tappr.org>; Wed, 20 Oct 1999 22:07:19 -0500 (CDT)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11594-46030-1999.10.20-22.19.29--wd5ivd#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 20 Oct 1999 20:07:02 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Comments about APRS Specs  
List-Unsubscribe: <mailto:leave-aprsspec-11594T@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <103130300b4343148f807@[198.106.196.105]>  
Sender: bounce-aprsspec-11594@lists.tappr.org  
Precedence: bulk  
Status:

Greetings -

After reading the Protocol description in detail, I have a lot of comments and questions. If this has been covered previously, my apologies.

Here are 3 comments about the existing format. Format IS important, because a consistent format reduces ambiguity.

=====  
First, a format suggestion. Please put it into a some sort of hierarchical format! Its hard to tell where you are from just the heading sizes, and when its reproduced in text-only format (as I have already had to do since the .PDF files are not down-loadable, at least with MSExplorer/Win95), its almost impossible to tell where you are in the description, and what belongs to what. What I mean is like the following (it does not have to use exactly this style):

## I. Heading

I.A. Section

I.B. Section

I.B.1 subsection

I.B.2 subsection

etc.

=====  
Generally ....

Inconsistent symbols seem to be used when "a general number" is intended vs "a general letter, A-Z" is intended. Please, please, make an attempt to be consistent, because it makes interpretation very difficult. For example, "BLNa" appears to use the "a" to signify an alpha. But, other places, such as "GPSxyz", other characters are used. Similarly, "n" seems to be used to represent a number in some places and "#" in others, but maybe not, I can't tell for sure.

In other words, put it right up front..

"In the following text, unless specifically stated otherwise, '#' shall represent a single numeric digit, 0-9, '@' shall represent a single alpha character, A-Z or a-z, and '|' shall represent any printable ASCII character."

Or, something like that. And, then, use it!

=====  
Generally...

I would really like to see something like BNF notation used to describe

field contents. With that kind of notation, for a 1-3 digit numeric field, one might write `#[#[#]]`, that is, one digit is required, a second digit is optional, and, if there is a second digit, then a 3rd digit is optional. This greatly reduces the ambiguities and fuzziness which are all through the specification. I cannot tell, for example, which fields are fixed length and which are variable, because it is never explicitly stated. This makes for a very poor protocol standard. It is not even obvious which fields are required and which are optional in various message types.

There is nothing magic about BNF. It is simply one of several recognized format description languages. Please choose something standard, and use it.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
                                         Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: wd5ivd@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11594T@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Sun Oct 24 18:57:43 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA29954  
      for <lyris.aprsspec@tapr.org>; Sun, 24 Oct 1999 18:57:41 -0500 (CDT)  
Message-Id: <LYR11589-46509-1999.10.24-19.09.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
X-Sender: milnes@openix.com (Unverified)  
Date: Sun, 24 Oct 1999 19:55:47 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ralph Milnes <milnes@openix.com>  
Subject: [aprsspec] How Soon Draft 2?  
In-Reply-To: <LYR11704-43348-1999.10.05-00.00.17--milnes#openix.com@list  
s.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <3.0.6.32.19991024195547.00792b10@openix.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I finally got around to reviewing the Protocol Draft 1.

I've been subscribed to this SIG for a little while and know that there have been many, many suggestions regarding clarity, omissions, and typos. (But it's great to see how much has been put down in basic form!)

I don't know what to do at this point:

- \* Compare all previous suggestions to those that I would make and drop redundancies
- \* Just list all my suggestions, even though they may be duplicates
- \* Forget about commenting -- most everything has been caught - just wait for Draft 2

Any advice? What is the next step in the process? Who makes the call on that?

Ralph, KC2RLM

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 25 07:20:22 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id HAA05735  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 25 Oct 1999 07:20:15 -0500 (CDT)  
Message-Id: <LYR11589-46580-1999.10.25-07.32.35--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>, [jra@meow.febo.com](mailto:jra@meow.febo.com)  
Subject: [aprsspec] Re: How Soon Draft 2?  
In-reply-to: Your message of "Sun, 24 Oct 1999 19:55:47 CDT."  
<LYR11592-46509-1999.10.24-19.09.58--n8ur#tapr.org@lists.tapr.org>  
Date: Mon, 25 Oct 1999 08:19:54 -0300  
From: John Ackermann <[jra@febo.com](mailto:jra@febo.com)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <199910251219.IAA19655@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi Ralph --

Thanks for your message; it gives me an excuse to generally update folks about what's been going on.

Ian Wade, G3NRW, has volunteered to take over the process of editing the document. He has a complete archive of the messages that have been sent to this list, and he's also been communicating with the authors to get clarifications and corrections. He has just provided the Working Group with his second draft; I haven't had a chance to review it yet myself, so can't comment on it, but based on the messages I've seen, I think he's done a great job so far. The document is now something like 60 pages, and virtually all of the blanks that were in the initial draft have now been filled in.

The WG is still hoping to have the draft finalized by the end of the month, and I think there's a reasonable likelihood that will happen. It hasn't been decided yet whether the final draft will be put out for one more round of public comments; I suspect that decision won't be made until after the WG have had a chance to review it.

So, to answer your question -- new substantive comments about errors, omissions, unclear points, etc., are still welcome, though with the number of comments that have been made, it's fairly likely that most of the biggies have been caught by now (I was going to suggest searching the mailing list archive, but noticed it's not in the TAPR search engine -- I'll suggest to Greg Jones that he add it). As to typos and formatting issues, the new drafts have changed so much that any comments there are probably obsolete.

Any comments made to this list will get to the WG members and Ian. It would be helpful if you would tag the subject line with something like "COMMENT:", "CORRECTION:", etc., so that such messages can be picked out easily.

73,  
John N8UR  
jra@febo.com

In message <LYR11592-46509-1999.10.24-19.09.58--n8ur#tapr.org@lists.tapr.org>,  
Ralph Milnes writes:

>I finally got around to reviewing the Protocol Draft 1.

>

>I've been subscribed to this SIG for a little while and know that there

>have been many, many suggestions regarding clarity, omissions, and typos.  
>(But it's great to see how much has been put down in basic form!)  
>  
>I don't know what to do at this point:  
>  
>\* Compare all previous suggestions to those that I would make and drop  
>redundancies  
>\* Just list all my suggestions, even though they may be duplicates  
>\* Forget about commenting -- most everything has been caught - just wait  
>for Draft 2  
>  
>Any advice? What is the next step in the process? Who makes the call on that?  
>  
>Ralph, KC2RLM  
>  
>  
>  
>---  
>You are currently subscribed to aprsspec as: n8ur@tapr.org  
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 26 09:14:56 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA04450  
for <lyris.aprsspec@tapr.org>; Tue, 26 Oct 1999 09:14:56 -0500 (CDT)  
Mime-Version: 1.0  
Message-Id: <LYR11589-46591-1999.10.26-09.25.20--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Mon, 25 Oct 1999 14:17:12 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Robert Winingham <kc5ejk@onramp.net>  
Subject: [aprsspec] CORRECTION:Altitude  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04220500b43a5697f134@[206.50.202.209]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I still would like to know if /A=xxxxxx is going to be part of the

supported Protocol.

Several balloon groups that used MIN/PIC chips to to decode the NMEA into posit reports striped the Altitude in meters from the GGA sentence and reported in feet. /A= was easy to tack on the end of a APRS packet.

The other important item is how the NEW Kenwood units will handle the sending of altitude.

73

----- kc5ejk@onramp.net or kc5ejk@amsat.org -----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 26 09:51:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA06010  
for <lyris.aprsspec@tapr.org>; Tue, 26 Oct 1999 09:51:45 -0500 (CDT)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Message-Id: <LYR11589-46637-1999.10.26-09.47.26--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Mon, 25 Oct 1999 09:58:35 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Greg Jones <wd5ivd@tapr.org>  
Subject: [aprsspec] Archives  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04020a04b43a1fafd61c@[192.168.0.2]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

The archive for the list has been available the whole time in the TAPR ftp area.

I have just included it into the indexed section on the web page.



Searchable:

<http://www.tapr.org/cgi-bin/wilma/aprsspec>

the Index for October:

<http://www.tapr.org/tapr/list-archive/aprsspec/9910/>

Cheers - Greg

-----

Greg Jones, WD5IVD

Austin, Texas

[wd5ivd@tapr.org](mailto:wd5ivd@tapr.org)

<http://www.tapr.org/~wd5ivd>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Tue Nov 2 17:51:10 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id RAA10824  
for <lyris.aprsspec@tappr.org>; Tue, 2 Nov 1999 17:51:08 -0600 (CST)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Tue, 2 Nov 1999 18:50:55 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: APRS Version Designators  
In-Reply-To: <LYR11586-43539-1999.10.05-17.58.00--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-47843-1999.11.02-18.03.56--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9911021849310.25519-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Someone wrote:

> A few balloon launches back we noticed that the balloon GPS data  
> said the payload was at 20,000 feet an hour after launch. It was  
> SUPPOSED to be at 60K+ feet.  
>  
> You guessed it. The GPS was putting out altitude in meters,  
> and the ground software wasn't doing the conversion.

No one said what version of APRS they were using, but I finlly got around  
to checking and APRSdos does check the NMEA for meters or feet...

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Nov 2 18:07:54 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA11319  
for <lyris.aprsspec@tapr.org>; Tue, 2 Nov 1999 18:07:53 -0600 (CST)  
Message-Id: <LYR11589-47846-1999.11.02-18.20.41--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Protocol Spec Update  
Date: Tue, 02 Nov 1999 19:07:29 -0500  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199911030007.TAA26095@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

The new draft of the APRS Protocol Reference specification is going through the final phases of update, and we expect to publish it towards the end of November.

This is a little later than originally anticipated -- the delay is due to the document's having grown from the original 17 pages to more than 70 over the last three weeks!

The new draft incorporates detailed packet format diagrams, the APRS symbol tables, descriptions of compressed data format and Mic-E format (with a complete appendix explaining in detail how to decode Mic-E packets), and many more examples of APRS packets in general.

There is an enormous amount of detail in the document which the APRS Working Group is now double-checking. We're sure you'll like the finished result, and will find it's been worth waiting for. Because the document has been virtually rewritten since the original draft, we will have another public comment period prior to final adoption of Version 1.0.

I'd like to thank the APRS authors as well as our technical editor, Ian Wade, G3NRW, who have exchanged hundreds of emails over the last few weeks trying to nail down obscure points in the protocol. Their hard work has made a real difference in the document we'll be delivering. I'd also like to thank everyone who commented on the original draft; all those comments have been taken into consideration for this iteration.

73,  
John N8UR  
jra@febo.com

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 2 18:32:56 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id SAA11854  
for <lyris.aprsspec@tapr.org>; Tue, 2 Nov 1999 18:32:50 -0600 (CST)  
Message-Id: <LYR11589-47849-1999.11.02-18.45.37--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
X-Sender: vodall@wa7nwp.dynip.com  
Date: Tue, 02 Nov 1999 16:32:13 -0800  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Bill Vodall <Vodall@bigsky.com>  
Subject: [aprsspec] Re: Protocol Spec Update  
In-Reply-To: <LYR11629-47846-1999.11.02-18.20.41--wa7nwp#bigsky.com@list  
s.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <3.0.5.32.19991102163213.009b8c90@wa7nwp.dynip.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>This is a little later than originally anticipated -- the delay is due  
>to the document's having grown from the original 17 pages to more than  
>70 over the last three weeks!

Wow. That's a lot of hard work!

>

>The new draft incorporates detailed packet format diagrams, the APRS  
>symbol tables, descriptions of compressed data format and Mic-E format  
>(with a complete appendix explaining in detail how to decode Mic-E  
>packets), and many more examples of APRS packets in general.

Will these examples be extractable to form a first pass at a  
test suite?

Bill, WA7NWP

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 2 19:11:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id TAA12915  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 2 Nov 1999 19:11:47 -0600 (CST)  
Message-Id: <LYR11589-47851-1999.11.02-19.24.28--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Protocol Spec Update  
In-reply-to: Your message of "Tue, 02 Nov 1999 16:32:13 PST."  
<LYR11592-47849-1999.11.02-18.45.37--n8ur#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Tue, 02 Nov 1999 20:11:18 -0500  
From: John Ackermann <[jra@febo.com](mailto:jra@febo.com)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199911030111.UAA26449@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> >The new draft incorporates detailed packet format diagrams, the APRS  
> >symbol tables, descriptions of compressed data format and Mic-E format  
> >(with a complete appendix explaining in detail how to decode Mic-E  
> >packets), and many more examples of APRS packets in general.  
>  
> Will these examples be extractable to form a first pass at a  
> test suite?  
>  
> Bill, WA7NWP

That's a good question. The examples weren't developed with that in mind (and I didn't develop them), so I'm not sure whether the authors would consider them to be "official" test packets or not. I'll make sure we discuss that question.

John

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 3 10:06:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id KAA21770  
for <lyris.aprsspec@tapr.org>; Wed, 3 Nov 1999 10:06:07 -0600 (CST)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
X-Sender: mcmusick@mail.anet-stl.com  
Message-Id: <LYR11589-47904-1999.11.03-10.18.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 3 Nov 1999 10:02:49 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Mike Musick <mcmusick@anet-stl.com>  
Subject: [aprsspec] Re: Protocol Spec Update  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04011700b445f21a9dd1@[209.145.180.204]>  
<LYR11712-47877-1999.11.03-00.00.10--mcmusick#anet-stl.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Bill asks -

>Will these examples be extractable to form a first pass at a  
>test suite?

Clearly, no.

Some (if not most) of the examples are hand-built for the purpose of illustration of the piece of protocol being discussed at that moment. While I suspect that most will "pass", I'll bet there are a number of examples that are good for the immediate topic but will crash and burn somewhere else.

A test suite will have to be addressed as a separate issue.

...mike/N0QBF

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 3 14:50:25 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id OAA03740  
for <lyris.aprsspec@tapr.org>; Wed, 3 Nov 1999 14:50:21 -0600 (CST)  
Message-ID: <LYR11589-47920-1999.11.03-15.03.13--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 3 Nov 1999 20:02:47 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Protocol Spec Update  
In-Reply-To: <LYR11659-47904-1999.11.03-10.18.58--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <CNPQQEAnTJI4Ewoe@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-47904-1999.11.03-10.18.58--ian#dowrmain.demon.co.uk  
@lists.tapr.org>, Mike Musick <mcmusick@anet-stl.com> writes

>Some (if not most) of the examples are hand-built for the purpose of  
>illustration of the piece of protocol being discussed at that moment. While  
>I suspect that most will "pass", I'll bet there are a number of examples  
>that are good for the immediate topic but will crash and burn somewhere  
>else.

I hope they won't :-)

>

>A test suite will have to be addressed as a separate issue.

To echo Mike's comment, although the new version of the spec has many  
more examples than the first version, there are still nowhere enough to  
fully exercise APRS software. Building a proper test suite will not be a

5-minute job.

73

Ian, G3NRW

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 4 20:20:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id UAA06719  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 4 Nov 1999 20:19:53 -0600 (CST)  
Message-ID: <LYR11589-48122-1999.11.04-20.32.49--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
From: "Dave VanHorn" <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
References: <LYR11608-47920-1999.11.03-15.03.13--  
[dvanhorn#cedar.net@lists.tapr.org](mailto:dvanhorn#cedar.net@lists.tapr.org)>  
Subject: [aprsspec] Re: Slightly OT  
Date: Thu, 4 Nov 1999 21:18:49 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <005801bf2734\$19298f80\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

But I figure the guys who know are probably here :)



In communicating with a TNC, what's the largest "sentence" one can send to/from the TNC, before encountering a <CR> or <LF>?

I've got a note here that GPS NMEA sentences can be up to 82 chars long. (yuk!)

I'm trying to figure out how large a comm buffer to allocate, assuming that I have to buffer an entire sentence to each device and from each device.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 4 21:04:17 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id VAA07794  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 4 Nov 1999 21:04:15 -0600 (CST)  
Date: Thu, 4 Nov 1999 21:04:03 -0600 (CST)  
From: Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)>  
Message-Id: <LYR11589-48144-1999.11.04-21.17.06--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Slightly OT  
In-Reply-To: <LYR11595-48122-1999.11.04-20.32.49--  
[salo@networkcs.com](mailto:salo@networkcs.com)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199911050304.VAA96669@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> From: "Dave VanHorn" <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
> Subject: [aprsspec] Re: Slightly OT  
> Date: Thu, 4 Nov 1999 21:18:49 -0500  
>  
> In communicating with a TNC, what's the largest "sentence" one can send  
> to/from the TNC, before encountering a <CR> or <LF>?  
> [...]

Well, that depends on which protocol you are using between the host and the TNC.

The maximum size of an AX.25 packet, ignoring flags and FCS, is:

|         |                                   |
|---------|-----------------------------------|
| Address | 70 bytes (10 addresses * 7 bytes) |
| Control | 1 byte                            |
| PID     | 1 byte                            |
| Info    | 256 bytes                         |
| ----    | -----                             |
| Total   | 328 bytes                         |

But, this answer makes sense only for KISS mode. Furthermore, you never need to encounter a <cr> or <lf>.

When receiving in TNC MONitor command format, one could construct an AX.25 packet with 10 addresses (source, destination, and 10 "via" addresses) and 256 bytes of data and get:

for each call:

|       |          |
|-------|----------|
| call  | 6 bytes  |
| "-"   | 1 byte   |
| ssid  | 2 bytes  |
| ">"   | 1 byte   |
| ----- | --       |
| Total | 10 bytes |

for a total of:

|         |                                              |
|---------|----------------------------------------------|
| Address | 111 bytes (10 addresses * 10 bytes plus "*") |
| Info    | 256 bytes                                    |
| -----   | ---                                          |
| Total   | 367 bytes                                    |

Or, you can make a bunch of assumptions that you won't ever get really big packets...

(These might make good packets for an APRS test suite.)

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 5 00:16:35 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.11) with SMTP id AAA20020  
for <lyris.aprsspec@tappr.org>; Fri, 5 Nov 1999 00:16:32 -0600 (CST)  
Message-ID: <LYR11589-48193-1999.11.05-00.29.27--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 5 Nov 1999 06:05:43 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Slightly OT  
In-Reply-To: <005801bf2734\$19298f80\$0200a8c0@xemu>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <dj73bNA30nI4EwoH@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <005801bf2734\$19298f80\$0200a8c0@xemu>, Dave VanHorn  
<dvanhorn@cedar.net> writes  
>  
>I've got a note here that GPS NMEA sentences can be up to 82 chars long.  
>(yuk!)  
>

According to the Garmin 25 manual which contains the NMEA sentence  
details, the max lengths are as follows:

|     |     |
|-----|-----|
| GGA | 72  |
| GSA | 65  |
| GSV | 210 |
| RMC | 70  |
| VTG | 34  |
| RME | 36  |
| RMT | 47  |
| RMV | 26  |
| RMF | 79  |
| GLL | 36  |
| VTG | 34  |

These include CR LF.

So I guess GSV (Satellites in View) is the one you have to allow for.

Ian, G3NRW

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| INTRODUCTION TO APRS: http://www.netro.co.uk/whitepaper.htm |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/aprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 08:31:08 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id IAA16234  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 08:31:07 -0600 (CST)  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-ID: <LYR11589-48392-1999.11.08-08.43.06--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 07 Nov 1999 19:20:37 -0800  
From: Dana Myers K6JQ <DMyers@QNET.COM>  
Reply-To: Dana@Source.Net  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Slightly OT  
References: <LYR12155-48144-1999.11.04-21.17.06--dana#source.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38264185.D28016D8@Qnet.com>  
Precedence: bulk

Tim Salo wrote:

>

> > From: "Dave VanHorn" <dvanhorn@cedar.net>

> > Subject: [aprsspec] Re: Slightly OT

> > Date: Thu, 4 Nov 1999 21:18:49 -0500

> >

> > In communicating with a TNC, what's the largest "sentence" one can send

```

> > to/from the TNC, before encountering a <CR> or <LF>?
> >      [...]
>
> Well, that depends on which protocol you are using between the host
> and the TNC.
>
> The maximum size of an AX.25 packet, ignoring flags and FCS, is:
>
>      Address          70 bytes (10 addreses * 7 bytes)
>      Control          1 byte
>      PID              1 byte
>      Info             256 bytes
>      ----             -
>      Total            328 bytes

```

Technically speaking, there's nothing preventing one from receiving a very large frame, even if the frame is not strictly AX.25 compliant. I recall that some of the 56kb experimenters were interested (for fairly obvious reasons) in frames with a payload greater than 256 bytes.

Granted, you're not likely to find such frames on a common 1200 baud channel, but I recall that a number of TNCs are capable of sending frames larger than the AX.25-specified maximum. If a piece of software decides to send a frame larger than the max, the TNC is liable to comply.

```

> Or, you can make a bunch of assumptions that you won't ever get really
> big packets...

```

Such assumptions should have a deterministic behavior when you \*do\* get a large frame (perhaps as a fluke). I'd suggest an assumption along the lines of "you don't have to process such frames", rather than "you'll never get 'em".

Dana K6JQ  
dana@source.net

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 09:04:46 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA17664  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 09:04:41 -0600 (CST)  
Date: Sun, 7 Nov 1999 18:24:52 -0700  
From: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: rustyc@inficad.com

Subject: [aprsspec] Traffic data in Phoenix  
Message-ID: <LYR11589-48449-1999.11.08-08.52.17--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <19991107182451.C29102@electron.kb7pwd.ampr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

N7IKQ, KA7ZQL and myself are trying to put together a system to report Phoenix freeway traffic conditions on packet. Both of these gentlemen work for the AZ freeway management system division of ADOT and have gotten permission to do this. The data available consists of traffic volume and speed measurements every 1/3 of a mile by means of sensors embedded in the pavement; the text that is displayed on those orange message signs; info about onramp metering; and info about "incidents" (accidents, construction or other traffic snafus). Obviously some of this data fits well into existing APRS message types. I read the spec about a week ago and discovered the "traffic sign" type which had as an example usage, the speed of traffic past a certain point. However it bothers me that it is limited to 3 digits, and no way of specifying units, and how this info will be used by APRS clients is ambiguous. My expectation would be that a typical client would display it as if it really were a highway sign showing drivers their speed as they go by. However more data is available than just speed - we also can know the "occupancy" which is a measure of how bumper-to-bumper the traffic is; speed for each lane separately; and volume of cars per hour. At azfms.com there is a color-coded map showing different colors for different speed ranges and I would like to incorporate or see someone else incorporate that kind of display into an APRS client. But it must be possible to separate that kind of data from other measurements of congestion; perhaps the client would give a choice which measurement to use, or show multiple color codes at the same time. The client could also have a text display of just the upcoming situations which are relevant to the driver, for the next 5 or 10 miles in the direction he's headed; and this text could be spoken by a voice synthesizer whenever it changes.

Anyway I suppose the sign messages, and incident reports, would fit in more generically, but I didn't see a good way of sending different APRS messages for these two types of data, other than just prefixing the sign messages with "SIGN:" or something like that.

New measurements of speed etc. are available every 20 seconds. I am aware the typical APRS update frequency is 10 minutes and that more often would

congest the frequency too much for its general-purpose nature, so we are thinking of using a separate frequency to send more detailed, frequent updates. I think in the interests of unification that I would like to try sending this data in XML format on the separate frequency (it would have seemed like a good idea anyway, but the DCC presentation on XML for APRS provided some more inspiration). Of course it will have to be a fairly compact form of XML (tags kept as short as possible) to fit in a 1200 baud channel, even assuming the channel is transmit-only and we can max out the available bandwidth. It appears that standard APRS messages are already too complex to decode easily (too few rules and too many exceptions) so stretching it even further to make new message formats to handle all the data types that are available would probably be a mistake. Trying to shoehorn the data into generic text messages would provide no incentive for APRS client software to try to display it more concisely as with color codes, and voice updates of only the data relevant to your position and direction, and things of that nature; you'd just end up with a screen full of icons and have to click on each one to find out what it says, and that would be useless if you are trying to drive at the same time. On the other hand it would be useful for APRS clients to be able to interpret the APRS XML DTD anyway, regardless what the source of that data is; and this might be the first on-air use of that DTD, with others following and having an extensible standard to work with rather than the ad-hoc APRS packet formats.

N7IKQ thinks the faster updates on the secondary channel should be by request only, in which case the channel would not be transmit-only, but the data sent could be targeted to what a particular user requested (give me the speed data for the next 5 miles of I-10 for example) rather than sending all the data all the time. Of course the more people are requesting data, this starts to become a losing proposition because most of the data needs to be sent anyway, yet we are also losing bandwidth to incoming requests and making the software more complex too.

In any case we want to provide whatever functionality that can fit into APRS protocol, on the normal APRS frequency so people don't have to use two channels at once if they don't want to.

Judging from the way APRS is used, there seems to be some loophole to get by the "no broadcasting" rule; I'm wondering what this is? Obviously the AX.25 "to" field is filled in but not usually with an individual ham's callsign. I don't want to raise a ruckus about that, just curious how it would be justified if the FCC asked.

I'm working with Linux of course, and this afternoon started with the beacon source code to find out how to open a socket and send packets. That's easy enough, now I just have to figure out what to send.

I'm open to suggestions on how to format the data, or otherwise.

---

-----  
( \_ | | \_ ) ecloud@bigfoot.com    finger rutledge@cx47646-a.phnx1.az.home.com  
\_ \_ ) | | \\_-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org    Mon Nov    8 09:35:02 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA20007  
      for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 09:34:59 -0600 (CST)  
Message-ID: <LYR11589-48465-1999.11.08-09.46.50--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Dave VanHorn" <dvanhorn@cedar.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR12155-48144-1999.11.04-21.17.06--dana#source.net@lists.tapr.org>  
            <LYR11608-48392-1999.11.08-08.43.06--dvanhorn#cedar.net@lists.tapr.org>  
Subject: [aprsspec] Re: Slightly OT  
Date: Mon, 8 Nov 1999 09:31:02 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
      charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <001e01bf29f5\$e1f947c0\$0200a8c0@xemu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Such assumptions should have a deterministic behavior when you \*do\* get a  
> large frame (perhaps as a fluke). I'd suggest an assumption along the  
lines  
> of "you don't have to process such frames", rather than "you'll never get  
'em".

It gets really fun when you try to think how to know where you are in all  
this, given that there's no real protocol, and all the control of the device



is also in-band.

It's a lot like initializing a hayes modem. There's no way to do that, which will always work.

My favorite Hayes-ism: "Restore to factory defaults".. As if that helps, given that there's no way to know what that is..

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 09:52:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id JAA21970  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 09:52:07 -0600 (CST)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 8 Nov 1999 10:50:41 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>, rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
In-Reply-To: <LYR11586-48449-1999.11.08-08.52.17--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-48476-1999.11.08-10.04.48--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9911081044370.14048-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Shawn,

The "Speed SIGn" in APRS is only the ICON display, the OBJECT itself still has the potential for having the 35 character "comment" field and if needed, the same "object" can send a full 63 character "STATUS" line as well.. Thus you have plenty of opportunity to embed other info in the object. Only the SPEED shows on the MAP ICON, but all the rest is displayed when you "click" on it...

Also, you can send general data as BULLETINS...

Or you can send "areas" which are boxes, triangles, circles and lines to enclose traffic congestion etc...

Does that help? I think the tools are mostly in there.. Just needs some creativity in sending the right packets...

Bob, WB4APR

On Sun, 7 Nov 1999, Shawn T. Rutledge wrote:

> N7IKQ, KA7ZQL and myself are trying to put together a system to report  
> Phoenix freeway traffic conditions on packet. Both of these gentlemen  
> work for the AZ freeway management system division of ADOT and have gotten  
> permission to do this. The data available consists of traffic volume and  
> speed measurements every 1/3 of a mile by means of sensors embedded in the  
> pavement; the text that is displayed on those orange message signs; info  
> about onramp metering; and info about "incidents" (accidents, construction  
> or other traffic snafus). Obviously some of this data fits well into  
> existing APRS message types. I read the spec about a week ago and discovered  
> the "traffic sign" type which had as an example usage, the speed of traffic  
> past a certain point. However it bothers me that it is limited to 3 digits,  
> and no way of specifying units, and how this info will be used by APRS  
> clients is ambiguous. My expectation would be that a typical client would  
> display it as if it really were a highway sign showing drivers their speed  
> as they go by. However more data is available than just speed - we also  
> can know the "occupancy" which is a measure of how bumper-to-bumper the  
> traffic is; speed for each lane separately; and volume of cars per hour.  
> At azfms.com there is a color-coded map showing different colors for  
> different speed ranges and I would like to incorporate or see someone else  
> incorporate that kind of display into an APRS client. But it must be possible  
> to separate that kind of data from other measurements of congestion;  
> perhaps the client would give a choice which measurement to use, or show  
> multiple color codes at the same time. The client could also have a  
> text display of just the upcoming situations which are relevant to the  
> driver, for the next 5 or 10 miles in the direction he's headed; and  
> this text could be spoken by a voice synthesizer whenever it changes.  
>  
> Anyway I suppose the sign messages, and incident reports, would fit in  
> more generically, but I didn't see a good way of sending different APRS  
> messages for these two types of data, other than just prefixing the sign  
> messages with "SIGN:" or something like that.  
>  
> New measurements of speed etc. are available every 20 seconds. I am aware  
> the typical APRS update frequency is 10 minutes and that more often would  
> congest the frequency too much for its general-purpose nature, so we are  
> thinking of using a separate frequency to send more detailed, frequent  
> updates. I think in the interests of unification that I would like to try

> sending this data in XML format on the separate frequency (it would have  
> seemed like a good idea anyway, but the DCC presentation on XML for APRS  
> provided some more inspiration). Of course it will have to be a fairly  
> compact form of XML (tags kept as short as possible) to fit in a 1200  
> baud channel, even assuming the channel is transmit-only and we can max  
> out the available bandwidth. It appears that standard APRS messages  
> are already too complex to decode easily (too few rules and too many  
> exceptions) so stretching it even further to make new message formats  
> to handle all the data types that are available would probably be a mistake.  
> Trying to shoehorn the data into generic text messages would provide  
> no incentive for APRS client software to try to display it more concisely  
> as with color codes, and voice updates of only the data relevant to your  
> position and direction, and things of that nature; you'd just end up with  
> a screen full of icons and have to click on each one to find out what  
> it says, and that would be useless if you are trying to drive at the  
> same time. On the other hand it would be useful for APRS clients to  
> be able to interpret the APRS XML DTD anyway, regardless what the  
> source of that data is; and this might be the first on-air use of that  
> DTD, with others following and having an extensible standard to work with  
> rather than the ad-hoc APRS packet formats.  
>  
> N7IKQ thinks the faster updates on the secondary channel should be by request  
> only, in which case the channel would not be transmit-only, but the data  
> sent could be targeted to what a particular user requested (give me the  
> speed data for the next 5 miles of I-10 for example) rather than sending  
> all the data all the time. Of course the more people are requesting  
> data, this starts to become a losing proposition because most of the  
> data needs to be sent anyway, yet we are also losing bandwidth to incoming  
> requests and making the software more complex too.  
>  
> In any case we want to provide whatever functionality that can fit into  
> APRS protocol, on the normal APRS frequency so people don't have to use  
> two channels at once if they don't want to.  
>  
> Judging from the way APRS is used, there seems to be some loophole  
> to get by the "no broadcasting" rule; I'm wondering what this is?  
> Obviously the AX.25 "to" field is filled in but not usually with an  
> individual ham's callsign. I don't want to raise a ruckus  
> about that, just curious how it would be justified if the FCC asked.  
>  
> I'm working with Linux of course, and this afternoon started with the  
> beacon source code to find out how to open a socket and send packets.  
> That's easy enough, now I just have to figure out what to send.  
>  
> I'm open to suggestions on how to format the data, or otherwise.  
> ---  
>  
> ----- <http://www.bigfoot.com/~ecloud>  
> ( \_ | | \_ ) ecloud@bigfoot.com    finger rutledge@cx47646-a.phnx1.az.home.com

> \_\_) | | \-----  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org  
>  
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapir.org/tapir/html/mic-e.html>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tapir.org Mon Nov 8 12:04:02 1999  
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])  
by tapir.org (8.9.3/8.9.3/1.11) with SMTP id MAA26133  
for <lyris.aprsspec@tapir.org>; Mon, 8 Nov 1999 12:03:58 -0600 (CST)  
Date: Mon, 8 Nov 1999 11:03:37 -0700  
From: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>  
Cc: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>,  
APRS Spec Discussion List <aprsspec@lists.tapir.org>,  
rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
Message-ID: <LYR11589-48489-1999.11.08-12.17.02--  
lyris.aprsspec#tapir.org@lists.tapir.org>  
References: <LYR11586-48449-1999.11.08-08.52.17--  
bruninga#nadm.navy.mil@lists.tapir.org>  
<Pine.GS0.4.05L.9911081044370.14048-1000000@arctic>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
In-Reply-To: <Pine.GS0.4.05L.9911081044370.14048-1000000@arctic>; from Bob Bruninga  
on Mon, Nov 08, 1999 at 10:50:41AM -0500  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>  
X-Message-Id: <19991108110337.A11384@electron.kb7pwd.ampr.org>

Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

On Mon, Nov 08, 1999 at 10:50:41AM -0500, Bob Bruninga wrote:

> The "Speed SIgn" in APRS is only the ICON display, the OBJECT itself  
> still has the potential for having the 35 character "comment" field and  
> if needed, the same "object" can send a full 63 character "STATUS" line

I guess I missed that.

> as well.. Thus you have plenty of opportunity to embed other info in the  
> object. Only the SPEED shows on the MAP ICON, but all the rest is  
> displayed when you "click" on it...

>

> Also, you can send general data as BULLETINS...

>

> Or you can send "areas" which are boxes, triangles, circles and lines  
> to enclose traffic congestion etc...

>

> Does that help? I think the tools are mostly in there.. Just needs some  
> creativity in sending the right packets...

Yes that helps.

>

> Bob, WB4APR

>

> On Sun, 7 Nov 1999, Shawn T. Rutledge wrote:

>

> > Judging from the way APRS is used, there seems to be some loophole  
> > to get by the "no broadcasting" rule; I'm wondering what this is?  
> > Obviously the AX.25 "to" field is filled in but not usually with an  
> > individual ham's callsign. I don't want to raise a ruckus  
> > about that, just curious how it would be justified if the FCC asked.

Any comments on this?

--

-----  
( \_ | | ) eccloud@bigfoot.com    finger rutledge@cx47646-a.phnx1.az.home.com  
-- ) | | \-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tapir.org Mon Nov 8 12:10:43 1999  
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA26530  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 12:10:39 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-48491-1999.11.08-12.23.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Mon, 08 Nov 1999 13:12:04 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>, rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
References: <LYR11586-48449-1999.11.08-08.52.17--  
bruninga#nadm.navy.mil@lists.tapr.org>  
<Pine.GSO.4.05L.9911081044370.14048-1000000@arctic>  
<LYR11601-48489-1999.11.08-12.17.02--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38271274.C06A2428@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

"Shawn T. Rutledge" wrote:

>  
> > On Sun, 7 Nov 1999, Shawn T. Rutledge wrote:  
> >  
> > > Judging from the way APRS is used, there seems to be some loophole  
> > > to get by the "no broadcasting" rule; I'm wondering what this is?  
> > > Obviously the AX.25 "to" field is filled in but not usually with an  
> > > individual ham's callsign. I don't want to raise a ruckus  
> > > about that, just curious how it would be justified if the FCC asked.  
>  
> Any comments on this?

It seems to me this has been addressed before in the sense a packet "broadcast"  
still has a specific audience, hence it is not a "broadcast". I know this has  
been

addressed in other UI modes of packet previous to APRS. I don't think you  
have much to worry about.

I think a bigger issue for you might be the usage of amateur frequencies by the Arizona Department of Transportation..., either directly or for there benefit.

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 12:54:22 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id MAA27822  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 12:54:19 -0600 (CST)  
Date: Mon, 8 Nov 1999 11:53:56 -0700  
From: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>,  
APRS Spec Discussion List <aprsspec@lists.tapr.org>,  
rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
Message-ID: <LYR11589-48497-1999.11.08-13.07.22--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR11586-48449-1999.11.08-08.52.17--  
bruninga#nadm.navy.mil@lists.tapr.org>  
<Pine.GS0.4.05L.9911081044370.14048-1000000@arctic>  
<LYR11601-48489-1999.11.08-12.17.02--jeff#aerodata.net@lists.tapr.org>  
<38271274.C06A2428@aerodata.net>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
In-Reply-To: <38271274.C06A2428@aerodata.net>; from Jeff King on Mon, Nov 08, 1999  
at 01:12:04PM -0500  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <19991108115356.A11546@electron.kb7pwd.ampr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Mon, Nov 08, 1999 at 01:12:04PM -0500, Jeff King wrote:

> "Shawn T. Rutledge" wrote:

> > > On Sun, 7 Nov 1999, Shawn T. Rutledge wrote:

```

> > >
> > > > Judging from the way APRS is used, there seems to be some loophole
> > > > to get by the "no broadcasting" rule; I'm wondering what this is?
> > > > Obviously the AX.25 "to" field is filled in but not usually with an
> > > > individual ham's callsign. I don't want to raise a ruckus
> > > > about that, just curious how it would be justified if the FCC asked.
> >
> > Any comments on this?
>
> It seems to me this has been addressed before in the sense a packet "broadcast"
> still has a specific audience, hence it is not a "broadcast". I know this has
> been
> addressed in other UI modes of packet previous to APRS. I don't think you
> have much to worry about.
>
> I think a bigger issue for you might be the usage of amateur frequencies by
> the Arizona Department of Transportation..., either directly or for there
> benefit.

```

It doesn't benefit them in any way; they have landline and microwave networks for their own purposes. This is a service to us hams, being initiated by hams and with a ham in charge of it within the ADOT building where the antenna will be located. I don't see a problem with it. If the antenna being at their building were the source of a problem then we could locate it elsewhere and send the data to the alternate location via the Internet.

--

```

-----
(_ | |_)  ecloud@bigfoot.com  finger rutledge@cx47646-a.phnx1.az.home.com
__) | | \_-----

```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 13:42:29 1999  
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
   by tapr.org (8.9.3/8.9.3/1.11) with SMTP id NAA29498  
   for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 13:42:23 -0600 (CST)  
 Errors-To: <jeff@aerodata.net>  
 Message-ID: <LYR11589-48502-1999.11.08-13.55.25--  
 lyris.aprsspec#tapr.org@lists.tapr.org>  
 Date: Mon, 08 Nov 1999 14:43:48 -0500  
 From: Jeff King <jeff@aerodata.net>  
 Organization: Aero Data Systems, Inc.  
 X-Accept-Language: en



MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>, rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
References: <LYR11586-48449-1999.11.08-08.52.17--  
bruninga#nadm.navy.mil@lists.tapr.org>  
<Pine.GS0.4.05L.9911081044370.14048-1000000@arctic>  
<LYR11601-48489-1999.11.08-12.17.02--jeff#aerodata.net@lists.tapr.org>  
<38271274.C06A2428@aerodata.net> <LYR11601-48497-1999.11.08-13.07.22--  
jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <382727F4.337A79C6@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

"Shawn T. Rutledge" wrote:

> On Mon, Nov 08, 1999 at 01:12:04PM -0500, Jeff King wrote:  
>  
> > I think a bigger issue for you might be the usage of amateur frequencies by  
> > the Arizona Department of Transportation..., either directly or for there  
> > benefit.  
>  
> It doesn't benefit them in any way; they have landline and microwave  
> networks for their own purposes. This is a service to us hams,

Sorry about that then. I think its a good use.... you were just asking  
some basic questions so I mentioned this. The reason I did is we  
have a project exactly like that here in Detroit. It is funded by MDOT  
and sends the information on 220mhz (non amateur part of 220). What  
you described sounded like yet another travelers information service  
that the various DOT's have been funding as of late.

So I hope you understand my confusion of your intent.

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 8 13:56:53 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.11) with SMTP id NAA29824  
for <lyris.aprsspec@tapr.org>; Mon, 8 Nov 1999 13:56:52 -0600 (CST)  
X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Mon, 8 Nov 1999 14:56:26 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>, rustyc@inficad.com  
Subject: [aprsspec] Re: Traffic data in Phoenix  
In-Reply-To: <19991108110337.A11384@electron.kb7pwd.ampr.org>  
Message-ID: <LYR11589-48503-1999.11.08-14.09.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9911081455450.12268-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Mon, 8 Nov 1999, Shawn T. Rutledge wrote:

> > > Judging from the way APRS is used, there seems to be some loophole  
> > > to get by the "no broadcasting" rule; I'm wondering what this is?  
> > > Obviously the AX.25 "to" field is filled in but not usually with an  
> > > individual ham's callsign. I don't want to raise a ruckus  
> > > about that, just curious how it would be justified if the FCC asked.

APRS is a network. Everyone transmits to everyone else in the network.  
Just like we do on any voice net...

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Nov 11 20:22:33 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA02064  
for <lyris.aprsspec@tappr.org>; Thu, 11 Nov 1999 20:22:32 -0600 (CST)  
Message-Id: <LYR11589-49076-1999.11.11-20.35.43--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
X-Sender: wa6ylb@mail.theworks.com  
Date: Thu, 11 Nov 1999 18:14:26 -0800  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Byron Smith <wa6ylb@theworks.com>  
Subject: [aprsspec] Use of GPSxyz codes - the ICON Rosetta table  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <4.2.0.58.19991111181209.0184c330@mail.theworks.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I've brought this subject up before as a problem , but now I have more information.

When you choose a GPS "C" group ICON for your tracker, please do so after reading this list below.

My recommendation, is to choose one that has ICON information that matches in all three flavors of APRS. I don't have any ICON information on other flavors of APRS.

Back in August (12th) I wrote to the aprssig mentioning that I was watching a tracker near Victorville sending packets with the "TO:" field of GPSC17, GPSC18 etc. I was using APRSdos at the time, and had recognized the code as ones seen in APRSplus icon table.

The problem was that APRSdos wasnt showing any ICON for these values. Only the callsign and speed/direction vector was showing.

APRSdos only mentions other ICONS, such as the M series (GPSMx) and a list of them in APRS\README\Symbols.txt file.

I was advised that APRSDOS was suppose to decode these and I have confirmed that it does to a certain extent.

Bob B writes in a reply:

APRSdos is supposed to decode it. I'll check it...

Not knowing which GPSCxx codes work, and which don't, I wrote a program in my laptop to change the LTP setting in my mobile KPC3+ v8.3 tracker. The program changed the setting of LTP 1 to be GPSC00 through GPSC99 then beamed each value with real GPS live data on a different channel than 144.39 every 10 seconds.

I then watched and recorded what each of the ICON values did (over the air) in APRSdos 844, Winaprs 2.3.3 and APRSplus.

I have not done the same thing with the listed ICONS in Symbols.txt that comes with APRSdos.  
I'll do that another day.

Below are the results of running each GPSCxx code through each program. The biggest problem I came up with, is, APRSdos doesn't display ANYTHING as an ICON for a lot of "C" codes. Any place you see -- in the DOS column, it means no ICON is displayed on the screen of APRSdos.

-----  
ICON displays for "C" group GPS tracker "T0:" addresses. See note 6 below for information about "E" group values.

| GPSCxx value | DOS Note 2<br>APRSplus note 2 | Winaprs                         | Note 2                          |
|--------------|-------------------------------|---------------------------------|---------------------------------|
| 00           | --                            | Red circle with<br>line thru it | Red circle with<br>line thru it |
| 01           | Red diamond<br>with !         | Diamond with P<br>(police?)     | Triangle with !                 |
| 02           | --                            | Rain                            | Rain                            |
| 03           | Digi star<br>(small)          | Digi star<br>(with hole)        | Digi Star                       |
| 04           | phone                         | phone                           | Happy face                      |
| 05           | Phone                         | DX                              | DX                              |
| 06           | Phone                         | Gateway                         | Gateway                         |
| 07           | Plane<br>(crashed?)           | Plane (small)                   | plane                           |
| 08           | Handicap                      | Clouds                          | Cloudy                          |
| 09           | --                            | TBD                             | TBD                             |
| 10           | Snowflakes                    | Snowflakes                      | Snowflakes                      |

|    |                                   |                            |                          |
|----|-----------------------------------|----------------------------|--------------------------|
| 11 | House                             | Red cross                  | Red Cross                |
| 12 | Boy Scout<br>(yellow)             | Rev L shape                | Rev L shape              |
| 13 | House                             | House/Vertical ant         | House/Vertical ant       |
| 14 | Question mark                     | Large X cross              | Red/White/Blue USA       |
| 15 | small dot                         | Red dot                    | red dot                  |
| 16 | dot with 0                        | Circle black 0             | Square black 0           |
| 17 | --                                | Circle Brown 1             | Square brown 1           |
| 18 | --                                | Circle Red 2               | Square Red 2             |
| 19 | --                                | Circle Orange 3            | Square Orange 3          |
| 20 | --                                | Circle Yellow 4            | Square Yellow 4          |
| 21 | --                                | Circle Green 5             | Square Green 5           |
| 22 | --                                | Circle Blue 6              | Square Blue 6            |
| 23 | --                                | Circle Vio 7               | Square Vio 7             |
| 24 | --                                | Circle Gray 8              | Square Gray 8            |
| 25 | Video communicator?               | Circle White 9             |                          |
|    | Square White 9                    |                            |                          |
| 26 | Building on Fire                  | Fire                       | Fire / Building          |
| 27 | Gray Tent                         | Green Tent                 | Green Tent               |
| 28 | Bike Rider                        | Motorcycle                 | Motorcycle               |
| 29 | train                             | train                      | Train                    |
| 30 | Auto                              | Red car                    | Red car                  |
| 31 | Question mark                     | Position server            | Position server          |
| 32 | Gray dot - small                  | Hurricane                  | Hurricane                |
| 33 | Block with "A"                    | Blue Cross aid station     |                          |
|    | Blue Cross aid station            |                            |                          |
| 34 | --                                | BBS                        | BBS                      |
| 35 | Canoe Green                       | Canoe                      | Canoe                    |
| 36 | --                                | Square box with "D" Yellow | Circle (yellow) with "D" |
| 37 | Eyeball                           | Circle (green) with "E"    | Circle (green) with "E"  |
| 38 | --                                | Square (blue) with "F"     | Circle (blue) with "F"   |
| 39 | --                                | Grid Square (antenna)      | Grid Square (antenna)    |
| 40 | Bed                               | Hotel (bed)                | Hotel (bed)              |
| 41 | --                                | TCP                        | TCP/IP                   |
| 42 | --                                | J                          | Circle (black) with "J"  |
| 43 | School                            | Red School                 | Red School               |
| 44 | Lighthouse                        | TCPIP                      | Lighthouse               |
| 45 | Mac LOGO                          | MAC LOGO                   | MAC LOGO                 |
| 46 | NTS                               | NTS                        | NTS                      |
| 47 | Balloon                           | Balloon                    | Balloon                  |
| 48 | Car                               | Car - Blue (police)        | Car - Blue (police)      |
| 49 | Earthquake - Gray                 | TBD                        | Earthquake               |
| 50 | Restaurant                        | RV (Capitol letters)       | RV (Capitol letters)     |
| 51 | Shuttle                           | Shuttle                    | Shuttle                  |
| 52 | --                                | SSTV (TV Screen)           | Thunderstorm             |
| 53 | Circle with three<br>rays from it | BUS                        | BUS                      |
| 54 | ATV (tv Screen)                   | ATV (tv screen)            |                          |

# VORTAC

|    |                        |                            |                       |
|----|------------------------|----------------------------|-----------------------|
| 55 | Double circle around   | Blue DOT with WX in middle |                       |
|    | Dark Blue DOT with WX  |                            |                       |
|    | W - callsign goofy     |                            |                       |
|    | See Note 4 below       |                            |                       |
| 56 | RX Pharmacy            | Helicopter                 | Helicopter            |
| 57 | Sail boat              | Sail boat / Yacht          | Sail boat             |
| 58 | Windows LOGO           | Windows LOGO               | Windows LOGO          |
| 59 | Runner                 | Runner                     | Runner                |
| 60 | Yellow DF Triangle     | Yellow DF triangle         | Yellow DF triangle    |
| 61 | Small hollow square    | MAIL                       | MAIL                  |
|    | (could be letter)      |                            |                       |
| 62 | crashed plane?         | Plane Large                | Plane                 |
| 63 | Blue WX dot            | Circle WX report           | Circle WX stn         |
| 64 | --                     | Dish on ground             | Dish on ground        |
| 65 | Ambulance              | Ambulance                  | Ambulance             |
| 66 | Bike                   | Bicycle                    | Bicycle               |
| 67 | --                     | DX (antenna)               | DX (antenna)          |
| 68 | Fire Dept              | Fire Dept                  | Fire Dept             |
| 69 | --                     | Equestrian                 | Equestrian            |
| 70 | Fire Truck             | Fire Truck                 | Fire Truck            |
| 71 | Hang glider            | Hang Glider                | Hang Glider           |
| 72 | Hospital               | Hospital                   | Hospital              |
|    | (hard to tell)         |                            |                       |
| 73 | Island OTA             | Isaland OTA                | Island OTA            |
| 74 | Jeep See note 6        | Jeep see note 6            | Jeep see note 6       |
| 75 | Pickup                 | Pickup (red)               | Pickup                |
| 76 | --                     | Red dot (areas)            | --                    |
| 77 | MIC E                  | MIC E (rpitr)              | Red dot               |
| 78 | --                     | N (node)                   | Mic E                 |
| 79 | EOC                    | EOC                        | EOC                   |
| 80 | --                     | Rover/Puppy                | Rover/Puppy           |
| 81 | Vertical line          | Grid Square (antenna)      | Grid Square (antenna) |
|    | entire screen          |                            |                       |
| 82 | MAN/Women (rest room?) | Radio Antenna (yagi)       |                       |
|    | Radio antenna          |                            |                       |
| 83 | Boat                   | Ship (pwr boat)            | Pwr boat              |
| 84 | Ts (truck stop)        | TS (truck Stop)            |                       |
|    | TS (Truck Stop)        |                            |                       |
| 85 | Truck                  | Truck 18 Wheel             | Truck 18 Wheel        |
| 86 | Van                    | Van                        | Van                   |
| 87 | H2O                    | H2O                        | H2O                   |
| 88 | Gray filled Diamond    | Large X (Unix/Win)         | Large X (Unix/Win)    |
| 89 | House (yagi antenna)   | House (yagi antenna)       |                       |
|    | House (yagi antenna)   |                            |                       |
| 90 | --                     | No Sym Yet                 | Blue hollow Diamond   |
| 91 | FOG (looks like        | No Sym Yet                 | FOG (letters)         |
|    | three Horizontal       |                            |                       |

|    |                |                          |                      |
|----|----------------|--------------------------|----------------------|
|    | lines)         |                          |                      |
| 92 | --             | No Sym Yet               | Unsure what this is. |
| 93 | Hollow Diamond | Hollow Diamond           |                      |
|    | TCP (letters)  |                          |                      |
| 94 | --             | No Sym Yet               | Sail boat            |
| 95 | --             | Red Square with Yellow ! | Bomb alert?          |
| 96 | --             | alert circles            | See note 1           |
| 97 | --             | alert circles            | See note 1           |
| 98 | --             | alert circles            | See note 1           |
| 99 | --             | alert circles            | See note 1           |

#### Notes:

1. APRSplus - There isn't any selection buttons for 96-99 inclusive
2. APRSdos - version 844, Winaprs 2.3.3, APRSplus version unknown, but aprox 6 months old.
3. APRSdos "--" icon means, that \*NO\* ICON was displayed on the screen at all. Only the  
callsign and RMC direction "spear" show.
4. GPSC55 doesn't display the callsign correctly in APRSdos 844. Its Jibberish.  
It looks to be part of a WX display instead of callsign.
5. The descriptions of all ICONS are subject to my interpretation, and I may have  
gotten clues from other versions of APRS as to what they might be. For some ICONS I just  
cant tell what they are.
6. There is a GPS "E" group shown in APRSplus Secondary table tab. Both Winaprs and APRSdos  
define all values of GPSE00 through GPSE99 as a "jeep" symbol, although there are many ICONS  
choices in APRSplus "E" group.

Byron Smith  
wa6ylb@theworks.com  
wa6ylb@wa6ylb.#nca.ca.usa.noam  
ICQ 26114994

<http://www.theworks.com/~wa6ylb>

"Luge strategy? Lie flat and try not to die."

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 12 05:26:29 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA03779  
for <lyris.aprsspec@tappr.org>; Fri, 12 Nov 1999 05:26:27 -0600 (CST)  
Message-ID: <LYR11589-49179-1999.11.12-05.39.39--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 12 Nov 1999 06:24:47 -0500  
From: PropNET <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Use of GPSxyz codes - the ICON Rosetta table  
References: <LYR11610-49076-1999.11.11-20.35.43--  
propnet#greeceny.com@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <382BF8FE.69D7E9CE@greeceny.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

What a f-a-n-t-a-s-t-i-c piece of work this is! Well done, Byron!

Now for an extension of the experiment...checking to see how javAPRS displays  
posit icons. Although  
anyone is welcome to beat me in the attempt, I will try (over the next couple 'o  
days) to launch  
gpsc### icons into the igate system, and view the result on the javAPRS system to  
see what  
happens...and add the results to the list, too. As an aside, one wonders that  
correlation exists  
among other gpsc### codes as well.

Again, well done, Byron!  
--Ev, W2EV--

Byron Smith wrote:

> I've brought this subject up before as a problem , but now I have more  
> information.  
>



> When you choose a GPS "C" group ICON for your tracker, please do so after  
> reading this list below.  
>  
> My recommendation, is to choose one that has ICON information that matches  
> in all three flavors of APRS. I don't have any ICON information on other  
> flavors of APRS.  
>  
> Back in August (12th) I wrote to the aprssig mentioning that I was watching  
> a tracker near Victorville sending packets with the "TO:" field of GPSC17,  
> GPSC18 etc. I was using APRSdos at the time, and had recognized the code as  
> ones seen in APRSplus icon table.  
>  
> The problem was that APRSdos wasnt showing any ICON for these values. Only  
> the callsign and  
> speed/direction vector was showing.  
>  
> APRSdos only mentions other ICONS, such as the M series (GPSMx) and a list  
> of them in  
> APRS\README\Symbols.txt file.  
>  
> I was advised that APRSDOS was suppose to decode these and I have confirmed  
> that it does to a certain extent.  
>  
> Bob B writes in a reply:  
>  
> APRSdos is supposed to decode it. Ill check it...  
>  
> Not knowing which GPSCxx codes work, and which dont, I wrote a program in  
> my laptop to change the LTP setting in my mobile KPC3+ v8.3 tracker. The  
> program changed the setting of LTP 1 to be GPSC00 through GPSC99 then  
> beacons each value with real GPS live data on a different channel than  
> 144.39 every 10 seconds.  
>  
> I then watched and recorded what each of the ICON values did (over the air)  
> in APRSdos 844, Winaprs 2.3.3 and APRSplus.  
>  
> I have not done the same thing with the listed ICONS in Symbols.txt that  
> comes with APRSdos.  
> I'll do that another day.  
>  
> Below is the results of running each GPSCxx code through each program. The  
> biggest problem I came up with, is, APRSdos doesn't display ANYTHING as an  
> ICON for a lot of "C" codes. Any place you see -- in the DOS collum, it  
> means no ICON is displayed on the screen of APRSdos.  
>  
> -----  
> ICON displays for "C" group GPS tracker "TO:" addresses. See note 6 below  
> for information

> about "E" group values.

>

| > GPSCxx value | DOS Note 2 | Winaprs Note 2 | APRSplus |
|----------------|------------|----------------|----------|
|----------------|------------|----------------|----------|

>

|      |    |                 |     |
|------|----|-----------------|-----|
| > 00 | -- | Red circle with | Red |
|------|----|-----------------|-----|

|             |  |              |      |
|-------------|--|--------------|------|
| circle with |  | line thru it | line |
|-------------|--|--------------|------|

>

|      |             |                |          |
|------|-------------|----------------|----------|
| > 01 | Red diamond | Diamond with P | Triangle |
|------|-------------|----------------|----------|

|        |        |           |  |
|--------|--------|-----------|--|
| with ! | with ! | (police?) |  |
|--------|--------|-----------|--|

|      |    |      |      |
|------|----|------|------|
| > 02 | -- | Rain | Rain |
|------|----|------|------|

|      |           |           |      |
|------|-----------|-----------|------|
| > 03 | Digi star | Digi star | Digi |
|------|-----------|-----------|------|

Star

|   |         |             |  |
|---|---------|-------------|--|
| > | (small) | (with hole) |  |
|---|---------|-------------|--|

>

|      |       |       |       |
|------|-------|-------|-------|
| > 04 | phone | phone | Happy |
|------|-------|-------|-------|

face

|      |       |    |    |
|------|-------|----|----|
| > 05 | Phone | DX | DX |
|------|-------|----|----|

|      |       |         |         |
|------|-------|---------|---------|
| > 06 | Phone | Gateway | Gateway |
|------|-------|---------|---------|

|      |       |               |       |
|------|-------|---------------|-------|
| > 07 | Plane | Plane (small) | plane |
|------|-------|---------------|-------|

|   |            |  |  |
|---|------------|--|--|
| > | (crashed?) |  |  |
|---|------------|--|--|

|      |          |        |        |
|------|----------|--------|--------|
| > 08 | Handicap | Clouds | Cloudy |
|------|----------|--------|--------|

|      |    |     |     |
|------|----|-----|-----|
| > 09 | -- | TDB | TBD |
|------|----|-----|-----|

|      |            |            |  |
|------|------------|------------|--|
| > 10 | Snowflakes | Snowflakes |  |
|------|------------|------------|--|

Snowflakes

|      |       |           |     |
|------|-------|-----------|-----|
| > 11 | House | Red cross | Red |
|------|-------|-----------|-----|

Cross

|      |           |             |       |
|------|-----------|-------------|-------|
| > 12 | Boy Scout | Rev L shape | Rev L |
|------|-----------|-------------|-------|

shape

|   |          |  |  |
|---|----------|--|--|
| > | (yellow) |  |  |
|---|----------|--|--|

|      |       |                    |        |
|------|-------|--------------------|--------|
| > 13 | House | House/Vertical ant | House/ |
|------|-------|--------------------|--------|

Vertical ant

|      |               |               |      |
|------|---------------|---------------|------|
| > 14 | Question mark | Large X cross | Red/ |
|------|---------------|---------------|------|

White/Blue USA

|      |           |         |         |
|------|-----------|---------|---------|
| > 15 | small dot | Red dot | red dot |
|------|-----------|---------|---------|

|      |            |                |        |
|------|------------|----------------|--------|
| > 16 | dot with 0 | Circle black 0 | Square |
|------|------------|----------------|--------|

black 0

|      |    |                |        |
|------|----|----------------|--------|
| > 17 | -- | Circle Brown 1 | Square |
|------|----|----------------|--------|

brown 1

|      |    |              |        |
|------|----|--------------|--------|
| > 18 | -- | Circle Red 2 | Square |
|------|----|--------------|--------|

Red 2

|      |    |                 |        |
|------|----|-----------------|--------|
| > 19 | -- | Circle Orange 3 | Square |
|------|----|-----------------|--------|

Orange 3

|      |    |                 |        |
|------|----|-----------------|--------|
| > 20 | -- | Circle Yellow 4 | Square |
|------|----|-----------------|--------|

Yellow 4

|      |    |                |        |
|------|----|----------------|--------|
| > 21 | -- | Circle Green 5 | Square |
|------|----|----------------|--------|

|                   |                     |                            |          |
|-------------------|---------------------|----------------------------|----------|
| Green 5           |                     |                            |          |
| > 22              | --                  | Circle Blue 6              | Square   |
| Blue 6            |                     |                            |          |
| > 23              | --                  | Circle Vio 7               | Square   |
| Vio 7             |                     |                            |          |
| > 24              | --                  | Circle Gray 8              | Square   |
| Gray 8            |                     |                            |          |
| > 25              | Video communicator? | Circle White 9             | Square   |
| White 9           |                     |                            |          |
| > 26              | Building on Fire    | Fire                       | Fire /   |
| Building          |                     |                            |          |
| > 27              | Gray Tent           | Green Tent                 | Green    |
| Tent              |                     |                            |          |
| > 28              | Bike Rider          | Motorcycle                 |          |
| Motorcycle        |                     |                            |          |
| > 29              | train               | train                      | Train    |
| > 30              | Auto                | Red car                    | Red car  |
| > 31              | Question mark       | Position server            | Position |
| server            |                     |                            |          |
| > 32              | Gray dot - small    | Hurricane                  |          |
| Hurricane         |                     |                            |          |
| > 33              | Block with "A"      | Blue Cross aid station     | Blue     |
| Cross aid station |                     |                            |          |
| > 34              | --                  | BBS                        | BBS      |
| > 35              | Canoe Green         | Canoe                      | Canoe    |
| > 36              | --                  | Square box with "D" Yellow | Circle   |
| (yellow) with "D" |                     |                            |          |
| > 37              | Eyeball             | Circle (green) with "E"    | Circle   |
| (green) with "E"  |                     |                            |          |
| > 38              | --                  | Square (blue) with "F"     | Circle   |
| (blue) with "F"   |                     |                            |          |
| > 39              | --                  | Grid Square (antenna)      | Grid     |
| Square (antenna)  |                     |                            |          |
| > 40              | Bed                 | Hotel (bed)                | Hotel    |
| (bed)             |                     |                            |          |
| > 41              | --                  | TCP                        | TCP/IP   |
| > 42              | --                  | J                          | Circle   |
| (black) with "J"  |                     |                            |          |
| > 43              | School              | Red School                 | Red      |
| School            |                     |                            |          |
| > 44              | Lighthouse          | TCPIP                      |          |
| Lighthouse        |                     |                            |          |
| > 45              | Mac LOGO            | MAC LOGO                   | MAC LOGO |
| > 46              | NTS                 | NTS                        | NTS      |
| > 47              | Balloon             | Balloon                    | Balloon  |
| > 48              | Car                 | Car - Blue (police)        | Car -    |
| Blue (police)     |                     |                            |          |
| > 49              | Earthquake - Gray   | TBD                        |          |

|                   |                      |                            |          |
|-------------------|----------------------|----------------------------|----------|
| Earthquake        |                      |                            |          |
| > 50              | Restaurant           | RV (Capitol letters)       | RV       |
| (Capitol letters) |                      |                            |          |
| > 51              | Shuttle              | Shuttle                    | Shuttle  |
| > 52              | --                   | SSTV (TV Screen)           |          |
| Thunderstorm      |                      |                            |          |
| > 53              | Circle with three    | BUS                        | BUS      |
| >                 | rays from it         |                            |          |
| > 54              | ATV (tv Screen)      | ATV (tv screen)            | VORTAC   |
| > 55              | Double circle around | Blue DOT with WX in middle | Dark     |
| Blue DOT with WX  |                      |                            |          |
| >                 | W - callsign goofy   |                            |          |
| >                 | See Note 4 below     |                            |          |
| > 56              | RX Pharmacy          | Helicopter                 |          |
| Helicopter        |                      |                            |          |
| > 57              | Sail boat            | Sail boat / Yacht          | Sail     |
| boat              |                      |                            |          |
| > 58              | Windows LOGO         | Windows LOGO               | Windows  |
| LOGO              |                      |                            |          |
| > 59              | Runner               | Runner                     | Runner   |
| > 60              | Yellow DF Triangle   | Yellow DF triangle         | Yellow   |
| DF triangle       |                      |                            |          |
| > 61              | Small hollow square  | MAIL                       | MAIL     |
| >                 | (could be letter)    |                            |          |
| > 62              | crashed plane?       | Plane Large                | Plane    |
| > 63              | Blue WX dot          | Circle WX report           | Circle   |
| WX stn            |                      |                            |          |
| > 64              | --                   | Dish on ground             | Dish on  |
| ground            |                      |                            |          |
| > 65              | Ambulance            | Ambulance                  |          |
| Ambulance         |                      |                            |          |
| > 66              | Bike                 | Bicycle                    | Bicycle  |
| > 67              | --                   | DX (antenna)               | DX       |
| (antenna)         |                      |                            |          |
| > 68              | Fire Dept            | Fire Dept                  | Fire     |
| Dept              |                      |                            |          |
| > 69              | --                   | Equestrian                 |          |
| Equestrian        |                      |                            |          |
| > 70              | Fire Truck           | Fire Truck                 | Fire     |
| Truck             |                      |                            |          |
| > 71              | Hang glider          | Hang Glider                | Hang     |
| Glider            |                      |                            |          |
| > 72              | Hospital             | Hospital                   | Hospital |
| >                 | (hard to tell)       |                            |          |
| > 73              | Island OTA           | Isaland OTA                | Island   |
| OTA               |                      |                            |          |
| > 74              | Jeep See note 6      | Jeep see note 6            | Jeep see |
| note 6            |                      |                            |          |

|                  |                        |                          |          |
|------------------|------------------------|--------------------------|----------|
| > 75             | Pickup                 | Pickup (red)             | Pickup   |
| > 76             | --                     | Red dot (areas)          | --       |
| > 77             | MIC E                  | MIC E (rptr)             | Red dot  |
| > 78             | --                     | N (node)                 | Mic E    |
| > 79             | EOC                    | EOC                      | EOC      |
| > 80             | --                     | Rover/Puppy              | Rover/   |
| Puppy            |                        |                          |          |
| > 81             | Vertical line          | Grid Square (antenna)    | Grid     |
| Square (antenna) |                        |                          |          |
| >                | entire screen          |                          |          |
| > 82             | MAN/Women (rest room?) | Radio Antenna (yagi)     | Radio    |
| antenna          |                        |                          |          |
| > 83             | Boat                   | Ship (pwr boat)          | Pwr boat |
| > 84             | Ts (truck stop)        | TS (truck Stop)          | TS       |
| (Truck Stop)     |                        |                          |          |
| > 85             | Truck                  | Truck 18 Wheel           | Truck 18 |
| Wheel            |                        |                          |          |
| > 86             | Van                    | Van                      | Van      |
| > 87             | H2O                    | H2O                      | H2O      |
| > 88             | Gray filled Diamond    | Large X (Unix/Win)       | Large X  |
| (Unix/Win)       |                        |                          |          |
| > 89             | House (yagi antenna)   | House (yagi antenna)     | House    |
| (yagi antenna)   |                        |                          |          |
| > 90             | --                     | No Sym Yet               | Blue     |
| hollow Diamond   |                        |                          |          |
| > 91             | FOG (looks like        | No Sym Yet               | FOG      |
| (letters)        |                        |                          |          |
| >                | three Horizontal       |                          |          |
| >                | lines)                 |                          |          |
| > 92             | --                     | No Sym Yet               | Unsure   |
| what this is.    |                        |                          |          |
| > 93             | Hollow Diamond         | Hollow Diamond           | TCP      |
| (letters)        |                        |                          |          |
| > 94             | --                     | No Sym Yet               | Sail     |
| boat             |                        |                          |          |
| > 95             | --                     | Red Square with Yellow ! | Bomb     |
| alert?           |                        |                          |          |
| > 96             | --                     | alert circles            | See note |
| 1                |                        |                          |          |
| > 97             | --                     | alert circles            | See note |
| 1                |                        |                          |          |
| > 98             | --                     | alert circles            | See note |
| 1                |                        |                          |          |
| > 99             | --                     | alert circles            | See note |
| 1                |                        |                          |          |
| >                |                        |                          |          |
| > Notes:         |                        |                          |          |
| >                |                        |                          |          |

> 1. APRSplus - There isn't any selection buttons for 96-99 inclusive  
> 2. APRSdos - version 844, Winaprs 2.3.3, APRSplus version unknown, but  
> aprox 6 months old.  
> 3. APRSdos "--" icon means, that \*NO\* ICON was displayed on the screen at  
> all. Only the  
>     callsign and RMC direction "spear" show.  
> 4. GPSC55 doesn't display the callsign correctly in APRSdos 844. Its Jibberish.  
>     It looks to be part of a WX display instead of callsign.  
> 5. The descriptions of all ICONS are subject to my interpretation, and I  
> may have  
>     gotten clues from other versions of APRS as to what they might be. For  
> some ICONS I just  
>     cant tell what they are.  
> 6. There is a GPS "E" group shown in APRSplus Secondary table tab. Both  
> Winaprs and APRSdos  
>     define all values of GPSE00 through GPSE99 as a "jeep" symbol, although  
> there are many ICONS  
>     choices in APRSplus "E" group.  
>  
> Byron Smith  
> wa6ylb@theworks.com  
> wa6ylb@wa6ylb.#nca.ca.usa.noam  
> ICQ 26114994  
>  
> <http://www.theworks.com/~wa6ylb>  
>  
> "Luge strategy? Lie flat and try not to die."  
>  
> ---  
> You are currently subscribed to aprsspec as: propnet@greeceny.com  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

--  
PropNET: an automated network, designed to  
study propagation anomalies. Intreagued?  
<http://www.RochesterNY.org/PropNET>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 12 08:26:39 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA07457  
for <lyris.aprsspec@tappr.org>; Fri, 12 Nov 1999 08:26:34 -0600 (CST)

Message-ID: <LYR11589-49198-1999.11.12-08.39.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11585-49076-1999.11.11-20.35.43--  
bhildebrand#earthlink.net@lists.tapr.org>  
Subject: [aprsspec] Re: Use of GPSxyz codes - the ICON Rosetta table  
Date: Fri, 12 Nov 1999 06:26:15 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01aa01bf2d19\$e18e60a0\$b794b3d1@celeron>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

With respect to APRS+SA, one can edit the files SYMBOLS.BMP and  
SYMBOLS2.BMP in the APRS+SA directory, and create any symbol for any icon  
you wish. Obviously, what you then see and what other see will be different  
if you do. The files are simple bitmaps 16x1538 pixels in size. A new icon  
every 16 pixels. In the future, I may compile them into a DLL, but for now,  
they are open.

Brent

```
> -----  
> ICON displays for "C" group GPS tracker "T0:" addresses. See note 6 below  
> for information  
> about "E" group values.  
>  
> GPSCxx value DOS Note 2 Winaprs Note 2 APRSplus note 2  
>  
> 00 -- Red circle with Red circle with  
> line thru it line thru it  
> 01 Red diamond Diamond with P Triangle with !
```

<much deleted>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 12 11:10:46 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA20993  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 12 Nov 1999 11:10:44 -0600 (CST)  
Message-Id: <LYR11589-49230-1999.11.12-11.23.56--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Subject: [aprsspec] Re: Use of GPSxyz codes - the ICON Rosetta table  
Date: Fri, 12 Nov 1999 12:10:12 -0500  
From: Steve Dimse <[sdimse@netrox.net](mailto:sdimse@netrox.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199911121710.MAA26787@netrox.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 11/12/99 6:24 AM PropNET ([propnet@greeceny.com](mailto:propnet@greeceny.com)) wrote:

>What a f-a-n-t-a-s-t-i-c piece of work this is! Well done, Byron!  
>  
>Now for an extension of the experiment...checking to see how javAPRS  
>displays posit icons. Although  
>anyone is welcome to beat me in the attempt, I will try (over the next  
>couple 'o days) to launch  
>gpsc### icons into the igate system, and view the result on the javAPRS  
>system to see what  
>happens...and add the results to the list, too. As an aside, one wonders  
>that correlation exists  
>among other gps### codes as well.  
>

First, if you do this, please make sure the positions are legit, rather than sending a couple hundred bogus positions. If you really want to do this, running javAPRS locally is a better answer.

However, doing this for javAPRS is largely a waste of time. I am well aware of the fact that the javAPRS icons are out of sync (as well as the fact that all the other versions are out of sync with each other). The underlying problem for this is the lack of a standard. Once this very



time-consuming process is complete, the authors will be bringing their versions into alignment with the standard, the icons are only one small part of the work that will need to be done.

For javAPRS, the icons are in 4 GIF files (primary and secondary icon sets for light and dark backgrounds), each holding 96 different icons. The icons must be copied into the light background GIF, moved to the dark background GIF and edited to appear nice on the dark background. This is a slow, tedious process, and one I haven't done for years, which is why the icons are out of sync.

Anyone that wants to tackle this, please feel free!

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 12 11:22:49 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21393  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 12 Nov 1999 11:22:48 -0600 (CST)  
Date: Fri, 12 Nov 1999 12:21:05 -0500  
From: Mark Sproul <[kb2ici@amsat.org](mailto:kb2ici@amsat.org)>  
Subject: [aprsspec] Re: Use of GPSxyz codes - the ICON Rosetta table  
<[LYR11591-49198-1999.11.12-08.39.43--msproul#apmail.ap.org@lists.tapr.org](mailto:LYR11591-49198-1999.11.12-08.39.43--msproul#apmail.ap.org@lists.tapr.org)>  
X-Sender: msproul@apmail.ap.org  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Cc: [aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)  
Message-id: <[LYR11589-49232-1999.11.12-11.36.02--lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-49232-1999.11.12-11.36.02--lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-version: 1.0  
<[LYR11585-49076-1999.11.11-20.35.43--bhildebrand#earthlink.net@lists.tapr.org](mailto:LYR11585-49076-1999.11.11-20.35.43--bhildebrand#earthlink.net@lists.tapr.org)>  
X-MIMETrack: Itemize by SMTP Server on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July 1999) at  
11/12/99 12:20:42 PM,  
Serialize by Router on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July 1999) at  
11/12/99 12:20:43 PM,  
Serialize complete at 11/12/99 12:20:43 PM  
X-Priority: 3 (Normal)  
Content-type: text/plain; charset="us-ascii"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <v03110724b451fc3e8f15@[165.1.27.20]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>With respect to APRS+SA, one can edit the files SYMBOLS.BMP and  
>SYMBOLS2.BMP in the APRS+SA directory, and create any symbol for any icon  
>you wish. Obviously, what you then see and what other see will be different  
>if you do. The files are simple bitmaps 16x1538 pixels in size. A new icon  
>every 16 pixels. In the future, I may compile them into a DLL, but for now,  
>they are open.  
>  
>Brent  
>

Brent and others

In MacAPRS a user can go in with Resedit and change the icons, the same goes with WinAPRS if you have a development environment and the resource editor for windows applications. HOWEVER, this should NOT be encouraged. We need to have the icons the SAME on all of our platforms. Byron has done a wonderful job for all of us, we should all strive to make them the same. Now it does NOT require that your blue car look like my blue car, but they should BOTH should be "blue cars"

My \$0.02

Mark

---

PLEASE NOTE NEW EMAIL ADDRESS  
!!!!!!!!!!!!!!

msproul@apmail.ap.org

---

|                                 |                    |
|---------------------------------|--------------------|
| Mark Sproul                     |                    |
| Software Engineer @ Assoc Press | Work: 609-860-7120 |
| msproul@apmail.ap.org           | Fax: 609-860-7129  |

---

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Nov 13 19:34:08 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA01923  
for <lyris.aprsspec@tapr.org>; Sat, 13 Nov 1999 19:34:07 -0600 (CST)  
Mime-Version: 1.0  
Message-Id: <LYR11589-49564-1999.11.13-19.47.23--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sat, 13 Nov 1999 20:31:50 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] use of ECHO on HF  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v04205500b453c0e19f90@[165.230.139.231]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In the spec, there is discussion of the WIDE, TRACE, RELAY etc..

There is no discussion on ECHO.. This is STILL being used on HF,  
mostly by MOBILEs.

I am -NOT- commenting on if this is correct or not, because I do not  
know.. If it IS supposed to still be used, it should be documented..

Bob, What say you? Again, I have not comment pro or con.

Keith  
Keith Sproul 732 445-3695 Office  
Student Housing Network Coordinator 732 445-2968 Fax  
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
http://dorm.rutgers.edu/~ksproul/ WU2Z

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Nov 14 07:20:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA05861  
for <lyris.aprsspec@tapr.org>; Sun, 14 Nov 1999 07:20:14 -0600 (CST)

X-Authentication-Warning: arctic.nadn.navy.mil: bruninga owned process doing -bs  
Date: Sun, 14 Nov 1999 08:19:27 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: use of ECHO on HF  
In-Reply-To: <LYR11586-49564-1999.11.13-19.47.23--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-49669-1999.11.14-07.33.31--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9911140816420.25362-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Good point. The use of "PATHS" is fundamental to APRS and is the number one question of newbees'. I can imagine tho, that others will say it should not be in the spec... But could it be an appendix or something?

I dont have spe c with me, but to the extent that W,R,T are in there, then ECHO should be too..

Bob

Sat, 13 Nov 1999, Keith Sproul wrote:

>  
> In the spec, there is discussion of the WIDE, TRACE, RELAY etc..  
>  
> There is no discussion on ECHO.. This is STILL being used on HF,  
> mostly by MOBILEs.  
>  
> I am -NOT- commenting on if this is correct or not, because I do not  
> know.. If it IS supposed to still be used, it should be documented..  
>  
> Bob, What say you? Again, I have not comment pro or con.  
>  
> Keith  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home

> <http://dorm.rutgers.edu/~ksproul/> WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: [bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)  
> To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapir.org](mailto:leave-aprsspec-11589P@lists.tapir.org)  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: [wb4apr@amsat.org](mailto:wb4apr@amsat.org)  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapir.org/tapir/html/mic-e.html>

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapir.org](mailto:lyris.aprsspec@tapir.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapir.org](mailto:leave-aprsspec-11589P@lists.tapir.org)

From bounce-aprsspec-11589@lists.tapir.org Mon Nov 15 12:14:10 1999  
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])  
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id MAA14465  
for <[lyris.aprsspec@tapir.org](mailto:lyris.aprsspec@tapir.org)>; Mon, 15 Nov 1999 12:14:08 -0600 (CST)  
Date: Mon, 15 Nov 1999 12:13:40 -0600 (CST)  
From: Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)>  
Message-Id: <LYR11589-49984-1999.11.15-12.27.25--  
[lyris.aprsspec@tapir.org](mailto:lyris.aprsspec@tapir.org)@lists.tapir.org>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapir.org](mailto:aprsspec@lists.tapir.org)>  
Subject: [aprsspec] Re: use of ECHO on HF  
In-Reply-To: <LYR11595-49669-1999.11.14-07.33.31--  
[salo@networkcs.com](mailto:salo@networkcs.com)@lists.tapir.org>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapir.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapir.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapir.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>  
X-Message-Id: <199911151813.MAA45914@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

> Date: Sun, 14 Nov 1999 08:19:27 -0500 (EST)  
> From: Bob Bruninga <[bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)>  
> Subject: [aprsspec] Re: use of ECHO on HF  
>  
> Good point. The use of "PATHS" is fundamental to APRS and is the number

> one question of newbees'. I can imagine tho, that others will say it  
> should not be in the spec... But could it be an appendix or something?  
> [...]

A couple of thoughts:

- o The audience of an APRS specification should be developers, not users. The objective of the spec ought to be to enable the development of interoperable implementations. That is, it ought not be a tutorial, (which is not to say that a tutorial would not be valuable, merely that a tutorial ought to be a different document).
- o An APRS specification ought to specify the operation of digipeaters. As Bob observed, this is a fundamental part of the APRS system.
- o A good argument could be made that there should be several APRS specifications. This will allow the individual specifications to evolve independently. For example, the operation of digis might be more likely to evolve than the base protocol itself. It would be nice to release a new digi specification without having to release a new APRS protocol specification. Three specifications come to mind, I think there might be more:
  - APRS protocol
  - Digi and forwarding operations
  - IGate and APRServe operations

Note that an APRS station would need to implement portions of more than one document.

Somewhere, I wrote some boilerplate for an APRS specification that talks about such things as the objectives and audience of the spec. If I have a few hours, I will put it up on the Web.

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 4 22:44:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA15620  
for <lyris.aprsspec@tapr.org>; Sat, 4 Dec 1999 22:44:38 -0600 (CST)  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Message-Id: <LYR11589-53300-1999.12.04-22.58.53--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Sat, 4 Dec 1999 22:44:26 -0600  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Greg Jones <wd5ivd@tapr.org>  
Subject: [aprsspec] APRS Protocol Spec Final Draft Published!  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <v04020a0fb46f9dc8976d@[192.168.0.2]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

=====  
APRS PROTOCOL SPECIFICATION  
=====

TAPR announces release of the second public draft of  
the APRS Protocol Specification.  
-----

It's finally here! The APRS Working Group has completed the second  
public draft of the APRS Protocol Specification.

This document covers the core functionality of APRS Protocol Version  
1.0 as it works today. This is the base level specification that all  
implementations should comply with, and it was unanimously adopted by  
the Working Group members, who include the authors of APRS-DOS,  
WinAPRS, MacAPRS, X-APRS, PocketAPRS, APRS+SA, javAPRS, and APRServe,  
and the developers of the Mic-E and Pic-E products.

The Specification forms the basis for future Working Group projects,  
including APRS test suites and the APRS Certification Program. The  
WG also hopes to use this document as the basis for further speci-  
fications, including IGate and APRS digipeater operation.

Over the last 8 weeks the specification has grown from 18 pages to 93.  
It now includes packet format diagrams, the APRS symbol tables, full  
details of the Mic-E encoded format, the compressed lat/long position  
format, plus weather report and telemetry formats. Above all, the

specification contains many examples of how APRS data is formatted to make it easier to understand.

The APRS Protocol Specification is now available on the APRS Working Group web page at: <http://www.tapr.org/tapr/html/Faprswg.html>.

It is available in PDF format, both zipped and unzipped. The zip file is a little under 1.5MB. You can read it with a PDF reader such as Adobe Acrobat 3 or 4.

This document is still a draft. There will now be a 15-day public discussion period in which anyone may feed back comments, criticisms and suggestions for improvement. Full information on how to do this is contained within the document.

The final cutoff for comment is midnight U.S. Pacific time on Sunday 19 December (i.e. 0800 UTC on Monday 20 December).

After this date the Working Group will consider all the comments, and will issue the final approved version of the Specification as soon as possible thereafter.

John Ackermann, N8UR ([jra@febo.com](mailto:jra@febo.com))  
Administrative Chair  
APRS Working Group  
4 December 1999

-----  
Tucson Amateur Packet Radio  
8987-309 E Tanque Verde Rd #337 \* Tucson, Az \* 85749-9399  
-----

e-mail: [tapr@tapr.org](mailto:tapr@tapr.org)                      web: <<http://www.tapr.org/>>  
ftp:     [ftp.tapr.org](ftp://ftp.tapr.org)  
phone:   940-383-0000                      fax: 940-565-2544  
-----

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 06:45:59 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA13592  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 5 Dec 1999 06:45:57 -0600 (CST)



Message-ID: <LYR11589-53337-1999.12.05-07.00.11--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Dale Huguley" <kg5qd@worldnet.att.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] General- Hurricane Specs  
Date: Sun, 5 Dec 1999 12:43:04 -0000  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <000501bf3f1e\$5f716920\$58994d0c@dale-s-home>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi all- first of all I would like to express my appreciation for all the work in getting the draft into a very clear format.

I thought the purpose of this draft was to define the protocol as it exists- not change it.

The hurricane spec changes the order of the data in the pressure and wind field areas. This means to implement the draft a 100 % changeover in user software by the next hurricane season.

I have serious problems with what I consider "geocentric" definitions:

There are parts of the world that do not use "hurricane" for a severe tropical cyclone. They are called Typhoons, Tropical Cyclones, Severe Tropical Cyclones etc..

The winds are defined as MPH. This is a major problem due to the more universal standard being knots. Internally at the National Hurricane Center they use knots and only convert to MPH for "Public" statements designed for U.S. distribution. The vast majority of bulletins from Guam, Miami and Honolulu are in knots. If a user wants the winds to show in MPH, the display software should do the conversion.

Radius should be in Nautical Miles to be consistent with knots.

Drop the business about gusts being in the last 5 minutes- this is not real

time data but estimates of winds possible (even in "present" positions)

Time should be the "Valid" time of the object- not the time received or transmitted

As to course and speed- Forward speed in knots - 000/000 = stationary  
.../... = no parse. There is a lot of difference between stationary and "I don't know"

73 de KG5QD Dale

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 09:32:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA18842  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 5 Dec 1999 09:31:56 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] ERROR: Flags byte in AX.25 frame should be 0x7E  
Date: Sun, 05 Dec 1999 17:33:17 +0200  
Message-ID: <LYR11589-53359-1999.12.05-09.46.13--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
X-MIME-Autoconverted: from 8bit to quoted-printable by [pyyhe.saunalahti.fi](mailto:pyyhe.saunalahti.fi) id  
RAA22744  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <p21l4sccac10jf68rf8topadlij50ahq6b@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA18842

>This document is still a draft. There will now be a 15-day public  
>discussion period in which anyone may feed back comments, criticisms

>and suggestions for improvement. Full information on how to do this is  
>contained within the document.

Hopefully this is the correct address to send contributions. The  
e-mail confirmation message, which I received when I joined the list  
did not specify the contribution address.

Chapter 3 "APRS and AX.25" states:

>i Flag ó The flag field at each end of the frame is the bit sequence 0x7f  
>that separates each frame.

The flag sequence in AX.25 is 01111110 (in binary), thus the hex value  
should be 0x7e

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 10:18:03 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA20311  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 5 Dec 1999 10:17:59 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] UNCLEAR: Maidenhead locator  
Date: Sun, 05 Dec 1999 18:19:13 +0200  
Message-ID: <LYR11589-53374-1999.12.05-10.32.13--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
X-MIME-Autoconverted: from 8bit to quoted-printable by [pyyhe.saunalahti.fi](mailto:pyyhe.saunalahti.fi) id  
SAA23936  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <o34l4s4nhor6k4166dmerql3fdnbbacbr@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA20311

In chapter 6 "TIME AND POSITION FORMATS" it is stated

```
>Maidenhead
>Locator
>(Grid Square)
>An alternative method of expressing a station's location is to provide a
>Maidenhead locator (grid square), together with a Symbol Table Identifier
>and Symbol Code, in a Status Report or in Mic-E status text.
>
>For example:
>
>I091sx/-
>
>indicates a house at grid square I091sx.
```

If only 4 character locator is available, is it represented as

I091 /- or I091/-

If the 8 character locator is available (also known as microwave locator and recognised by IARU region I), can it be represented at all e.g.

I091sx36/-

The specification does not say, if the characters should be in upper and/or lower case or if a mixed case can be used. If mixed case can be used, which IMHO it should be, then such constructions as I091sX are legal and this should then be clearly stated, so that every implementor of receiving software remembers to check for both upper and lowercase characters.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 11:54:15 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA23745  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 5 Dec 1999 11:54:10 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] OMISSION: Glossary

Date: Sun, 05 Dec 1999 19:55:28 +0200  
Message-ID: <LYR11589-53384-1999.12.05-12.08.26--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <ui7l4skhr4pq4d4p0alivp2infriqn1fkh@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

The use of non-SI (US specific) measuring units in various messages will cause some problems in countries using SI units, in which the data is both originated and displayed in SI-units. Remembering what happened to Mars Climate Orbiter once again emphasis the need for correct conversions :-).

Eg. if the original data is in kilometers and the message is in miles and the transferred data is displayed in kilometers, due to the limited resolution in the mile representation, the displayed kilometer value may be one larger or smaller than the transmitted value.

The situation deteriorates even further, if different conversion factors are used in the encoding and decoding phase. Thus it is very important to specify the exact conversion factors to be used e.g. in the glossary, so that all implementations will use exactly the same definition. At least the following missing terms should be included in the glossary:

|      |          |            |
|------|----------|------------|
| inch | 1 inch = | 0.0254 m   |
| feet | 1 feet = | 0.3048 m   |
| mile | 1 mile = | 1609.344 m |

These are exact values as 1 inch is by definition 25.4 mm.

The conversion between Celsius and Fahrenheit should be defined in the glossary, so that every implementation does it properly.

> mph miles per hour (km/hour = mph \* 1.60935. m/sec = mph \* 0.447).

Exact values should be used, since they are available, thus

mph miles per hour (km/hour = mph \* 1.609344. m/sec = mph \* 0.44704).

>knots International nautical miles per hour (mph = knots \* 1.151).

The conversion from knots to m/s should also be specified e.g.

1 knot = 0.514444... m/s

>(International) Nautical Mile 6076.103 feet / 1852 meters.

The international nautical mile is 1852 meters or 1852/0.3048=6076.115485564 ft, thus even the second decimal in the glossary is wrong.

These comments may seem to someone to be just nit-picking and indeed, the last decimals are meaningless if the data source is in US units and the display is in SI or when the data source is in SI-units and the display in US-units, since typical sensors only have 2-3 digit precision.

However, when both the data source and display is in SI-units and the messages in US units then it is very important that the SI/US and US/SI conversion are performed using exactly the same constants. Why use invented inaccurate constants when exact values are available in many cases (thanks to the definition of an inch to be exactly 25.4 mm).

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 13:48:31 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA27563  
for <lyris.aprsspec@tapr.org>; Sun, 5 Dec 1999 13:48:28 -0600 (CST)  
Date: Sun, 5 Dec 1999 12:47:51 -0700  
From: Bob Nielsen <nielsen@primenet.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Comment on new specification  
Message-ID: <LYR11589-53420-1999.12.05-14.02.40--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
User-Agent: Mutt/1.0i

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyriss Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <19991205124751.B21514@bob.localnet>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

P. 2: Tucson is not spelled Tuscon.

--

Bob Nielsen, W6SWE (RN2) Internet: nielsen@primenet.com  
Tucson, AZ DM42nh AMPRnet: w6swe@w6swe.ampr.org  
QRP-L #1985 http://www.primenet.com/~nielsen

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Dec 5 14:55:29 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29535  
for <lyris.aprsspec@tappr.org>; Sun, 5 Dec 1999 14:55:27 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] GENERAL: Character sets  
Date: Sun, 05 Dec 1999 22:56:47 +0200  
Message-ID: <LYR11589-53429-1999.12.05-15.09.44--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyriss Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <ncfl4sk1lg6tc14kh3cm3d9b5bqalu60g0@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

The term "ASCII" is over-used and abused and can be used quite ambiguously, so it should be defined in the glossary to refer to ANSI X3.4 from 1968, or at least this is my interpretation from the context.

While the comment field in various messages can only contain printable ASCII characters excluding | and ~, however in chapter 14 "MESSAGES, BULLETINS AND ANNOUNCEMENTS" nothing is said about allowed characters, thus | and ~ as well as 8 bit characters should be legal.

However, the Message-ID begins with "{", so I do not see how this can be properly distinguished from the situation, in which the message text contains the "{" character. Is it so that the preceding text can not contain a "{" character ?

The allowed characters for status report are not specified.

In chapter 18 "USER-DEFINED DATA FORMAT"

>Important Note: Although there is no restriction on the nature of user-defined  
>data, it is highly recommended that it is represented in printable 7-bit  
>ASCII character form.

Why this restriction ?

-----

The following discussion is not relevant to version 1.0 of the specification, but I think that some provisions should be made in version 1.0 in order to not make future expansions impossible.

While English is used quite commonly in international contacts between radio amateurs, English is far from the only language used by amateurs, especially in local VHF/UHF activities (e.g. voluntary search and rescue services), in which the local language is used.

Unfortunately the 7 bit ASCII (ANSI X3.4) is far from adequate for encoding of these local languages. For Latin based scripts (Western and Central Europe, North and South America) various national versions of the 7 bit ISO-646 has been used, in which #@[\\]^\_{'|}~ characters are replaced with local variants. These national character sets have been used in amateur packet radio traffic, but is more or less obsolete in all other data processing these days.

Most data processing outside the US is done in various 8 bit variants of ISO-8859 for Latin, Cyrillic, Greek, Hebrew and Arabic. Unfortunately this seems to be too exotic for packet radio purposes, but should be adequate for local single language situations.

For multilingual communication, the rest of the world is moving towards 16 bit Unicode encoding. Unicode is the native character set of Windows CE and Windows NT, some degree of support on Windows 95/98



and various Unix dialects. Older platforms, such as MS-DOS could map at least some characters to the local code page.

There was even the UTF-7 specification (RFC 2152) that allowed transmission of Unicode over 7 bit mail gateways, but since all gateways in the Internet are nowadays 8 bit clean, there is no longer a need for 7 bit encoding, so the use of UTF-7 is no longer recommended.

A better encoding is UTF-8 (RFC 2279) which transfers 16 bit Unicode characters with 1-3 eight bit bytes. Traditional US-ASCII characters (0..127) are represented with one byte, accented Latin, Cyrillic, Greek etc. are represented with 2 bytes, while Far-East ideographs require 3 bytes.

As I said previously, these things do not belong to version 1.0 of the specification, but IMHO, version 1.0 should specify that the comment field and some other user entered text fields should be forwarded as 8 bit characters, even if all specifications currently calls for generating only 7 bit US-ASCII characters. The programmer should be aware that some day there might come 8 bit characters and it is not acceptable to simply mask of the MSB of each byte or use signed char in the C-programming language.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 5 17:35:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04922  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 5 Dec 1999 17:35:52 -0600 (CST)  
Date: Sun, 5 Dec 1999 17:35:40  
Subject: [aprsspec] ERROR: typos  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: "James Ewen" <[jewen@home.com](mailto:jewen@home.com)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-Id: <LYR11589-53459-1999.12.05-17.50.09--  
[lyris.aprsspec@lists.tapr.org](mailto:lyris.aprsspec@lists.tapr.org)>

Precedence: bulk

typographic errors

pg. 4 pp. 3 s. 1 -> Mr Spocks - change to - Mr. Spocks (period missing)  
pg. 4 pp. 5 s. 1 -> This document is the result of inputs from many people,  
and collated and massaged by the APRS Working Group. - change to - This  
document is the result of input from many people, which have been collated  
and massaged by the APRS Working Group.  
pg. 4 pp. 5 s. 2 -> getting it on to the street. - change to - getting it  
onto the street.

GENERAL - color descriptors

pg. 47 object color table -> DOS conventions usually call colors  
BRIGHT/normal rather than normal/DIM  
I've never run across this before... It still conveys the same information.  
Some use the convention HIGH INTENSITY/ LOW INTENSITY.

UNCLEAR - pg. 32 - 33 DFS and NRQ definitions are a little obscure. Adding  
in a table showing the implementation would be helpful. Reference is made  
to the PHG table, but you need to change the power in watts to recieved S  
units. Add another table, it's not much space, and much easier than having  
to flip pages and convert the chart data in your head.  
No definition of the signal quality report is given. It defines legal  
values being in the range of 0-9 but not what they mean. Is 0 good or bad?  
Another table would be nice.

Excellent document overall, it's sure nice to have the information all in  
one spot and presented professionally. Thank you to all of the APRSWG and  
others who are working on this document and the REAL WORLD implementation  
of this protocol!

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 7 15:13:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA29371  
for <lyris.aprsspec@tapr.org>; Tue, 7 Dec 1999 15:13:24 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: UNCLEAR: Maidenhead locator  
Date: Tue, 07 Dec 1999 23:14:56 +0200  
Message-ID: <LYR11589-53776-1999.12.07-15.27.47-->

lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR13206-53374-1999.12.05-10.32.13--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
In-Reply-To: <LYR13206-53374-1999.12.05-10.32.13--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
X-MIME-Autoconverted: from 8bit to quoted-printable by pyyhe.saunalahti.fi id  
XAA06550  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <corq4ssv2d3o8co4vnamvgopptimcei4fu@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA29371

On Sun, 05 Dec 1999 18:19:13 +0200, Paul Keinanen <keinanen@sci.fi>  
wrote:

>  
>In chapter 6 "TIME AND POSITION FORMATS" it is stated  
>  
>>Maidenhead  
>>Locator  
>>(Grid Square)  
>>An alternative method of expressing a station's location is to provide a  
>>Maidenhead locator (grid square), together with a Symbol Table Identifier  
>>and Symbol Code, in a Status Report or in Mic-E status text.  
>>  
>>For example:  
>>  
>>I091sx/-  
>>  
>>indicates a house at grid square I091sx.  
>  
>If only 4 character locator is available, is it represented as  
>  
>I091 /- or I091/-  
>  
>If the 8 character locator is available (also known as microwave  
>locator and recognised by IARU region I), can it be represented at all  
>e.g.  
>  
>I091sx36/-

>  
>The specification does not say, if the characters should be in upper  
>and/or lower case or if a mixed case can be used. If mixed case can be  
>used, which IMHO it should be, then such constructions as Io91sX are  
>legal and this should then be clearly stated, so that every  
>implementor of receiving software remembers to check for both upper  
>and lowercase characters.

I have studied the situation a bit more and tried to locate any  
primary documents.

Unfortunately I do not have the minutes of the meeting in Maidenhead  
1980, but the next official document is the VHF-manager's handbook, of  
which only paper copies existed previously.

Fortunately it is now available on the net at  
<http://www.scit.wlv.ac.uk/vhfc/iaru.r1.vhfm.4e/index.html>, which seems  
to be quite up to date, including the micro-locator. The only thing  
that is missing, as far as I can tell, is that in IARU Region meeting  
this September in Lillehammer, Norway, it was agreed that the WGS-84  
coordinate system should be used when determining the locator. WGS-84  
is used on the GPS-system and the difference can be up to a few  
hundred meters from some national grid frames. But fortunately, this  
is of no consequence to the APRS message structures.

Following the links, the relevant part is

>2.Description of the Locator system

>  
> The Locator system is a grid system, allowing to give the location of a  
station by a code  
> consisting of six characters, viz. two capital letters, a two-digit number  
and, again, two  
> capital letters. For example : J031DG.

Thus, all the references to the J091sx example in the APRS  
specification is wrong, it should be J091SX.

Then there is the question of micro-locators eg. J091SX23, should this  
be allowed in APRS messages ?

I think it should be stated in the APRS specification that the locator  
should always be generated and transmitted/forwarded as upper case,  
but if lower case characters are received, they should be converted to  
upper case before any further processing.

In this way if some existing system generate locators in lower case,  
the data will still be understood and this non-standard practice will

sooner or later fade away.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 7 23:52:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA16696  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 7 Dec 1999 23:52:10 -0600 (CST)  
Message-Id: <LYR11589-53822-1999.12.08-00.06.31--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 7 Dec 1999 22:51:50 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Destination field as "call"??  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130302b4739f158ec5@[198.106.196.170]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I would sincerely disagree with the use of the term "callsign" for the description of the contents of the destination field (page 13 and following).

A callsign is something assigned to an individual ham operator. These are not. The use of this term in the context of a UI destination field is, at the very least, confusing. When the term "callsign" is used without the modifier "destination address", it is often unclear WHICH callsign (operator's callsign or the destination address callsign) is being referenced. If the modifier has to be used to make it clear, then just refer to it as "destination address" and forget the callsign.

A much better term would be "network" or "net". It is far more descriptive of the function. There are probably other, maybe even more appropriate terms.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 7 23:52:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA16719  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 7 Dec 1999 23:52:50 -0600 (CST)  
Message-Id: <LYR11589-53823-1999.12.08-00.07.11--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 7 Dec 1999 22:51:57 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Destination field  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130301b4739df74ba0@[198.106.196.170]>  
<LYR11893-50091-1999.11.16-00.00.08--[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 14 of the draft spec, in the section titled:

Generic APRS Callsigns with Symbols

It says:

APRS uses several of the above-listed generic callsigns in a special way to specify not only a callsign but also a display symbol:

GPSxyx Raw GPS NMEA packets  
GPSCnn Raw GPS NMEA packets  
GPSEnn Raw GPS NMEA packets  
SPCxyz Raw GPS NMEA packets (special event)  
SYMxyz (to be decided)

Notwithstanding the "non-explanation" on page 75, it is totally unclear what function the "GPSCnn" and "GPSEnn" callsigns (a term I use under protest) might have. Given the existence of GPSxyx (spelling error?), aren't these redundant? They certainly do complicate decoding!

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 00:08:53 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23296  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 00:08:48 -0600 (CST)  
Message-ID: <LYR11589-53826-1999.12.08-00.23.10--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
From: Koellner Guenter <[Guenter.Koellner@icn.siemens.de](mailto:Guenter.Koellner@icn.siemens.de)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] test  
Date: Wed, 8 Dec 1999 07:09:44 +0100  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id:

<717DBDF53B9AD211B8220008C71EE1B379E57A@mchh226e.demchh201e.oen.siemens.de>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id AAA23296

test, sorry... i found nowhere else the email where to send the comments to  
aprs spec

vy 73, Guenter, DL4MEA

> -----  
> SIEMENS        Information and Communication Networks  
>                                Communication on Air  
> G,nter K^llner        Mobile Radio - Development  
>  
> Siemens AG  
> ICN CA MR E C3    Tel.        +49 89 - 722 - 41962  
> Hofmannstr.51        Fax        +49 89 - 722 - 22187  
> D-81359 Muenchen Mail:    guenter.koellner@icn.siemens.de  
>  
> http://www.qsl.net/dl4mea  
>  
>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org    Wed Dec   8 00:20:56 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
      by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23437  
      for <lyris.aprsspec@tappr.org>; Wed, 8 Dec 1999 00:20:51 -0600 (CST)  
Message-ID: <LYR11589-53827-1999.12.08-00.35.16--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
From: Koellner Guenter <Guenter.Koellner@icn.siemens.de>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] several subjects  
Date: Wed, 8 Dec 1999 07:21:49 +0100  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>



X-Message-Id:

<717DBDF53B9AD211B8220008C71EE1B379E57B@mchh226e.demchh201e.oen.siemens.de>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Hello all,

this is my comment for the APRSSPEC:

ERROR: Closing Flag is 1 byte wide

Ref.: APRSSPEC 1.0.1g, pg. 12:

The frame showing the number of bytes within an AX.25 frame shows the closing flag with two bytes, its correct only one byte.

SUGGESTION: UTC time and SI-units should be used, I agree to OH3LWR

Ref.: all units and time formats in the document

OMMISSION: Power level must have wider range

Ref.: APRSSPEC 1.0.1g, pg. 64:

Just a maximum of 810watts is too less. How should one report  $\sqrt{4000/10}$ . Please expand!

Maybe it makes even more sense to state ERP there, not power, because ERP is that what is interesting...

One more comment to general will follow in a separate mail.

vy 73, Guenter, DL4MEA

<http://www.qsl.net/dl4mea>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 00:31:01 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23558

for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 00:30:59 -0600 (CST)

Message-ID: <LYR11589-53829-1999.12.08-00.45.24--

lyris.aprsspec#tapr.org@lists.tapr.org>  
From: Koellner Guenter <Guenter.Koellner@icn.siemens.de>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] GENERAL: APRSSPEC 1.0.1g  
Date: Wed, 8 Dec 1999 07:31:59 +0100  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id:  
<717DBDF53B9AD211B8220008C71EE1B379E57C@mchh226e.demchh201e.oen.siemens.de>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id AAA23558

hello all,

sorry if that was discussed earlier or elsewhere, I am not that up-to-date with APRS, but very interested:

Here in central europe we have a wide network of nodes and digipeaters which are mostly using FlexNet or other network systems. Standard digipeating is of course still supported, but it became very unusal.

Most conversation is done using converse nodes, such as WWCONVERSE which is supported by internet gateways, but there is another CONVERSE system based only on AX.25 networks. Both are about equal in their features.

I often thought that the best possibility for APRS to distribute the informtion wide and safe would be that the stations are all using one converse channel. By that, all constraints you are doing for networking in the protocol, it is all already done.

Let me explain it in an example: We have a VHF discussion channel on the WWCONVERSE (ch.14345). During the leonides meteor shower over 100 radio amateurs joined and were available for all comments.

If such could be done for APRS message distribution, it would gain much because the range even all over the world (remember, its called WW-converse) would be available.

Not at least, we would change from an UI distribution to AX.25 acknowledged distribution, where the packets will become as short as possible, local

acknowledged. The only thing we have to add then is a way of setting up the connection to the converse node. We should not talk about handover or such else, even when possible from the protocol, we have to deal with a wide variety of radios which could not be brought into a common behavior, I doubt.

How about such?

vy 73, Guenter, DL4MEA

```
> -----
> SIEMENS      Information and Communication Networks
>              Communication on Air
> G,nter K^llner      Mobile Radio - Development
>
> Siemens AG
> ICN CA MR E C3   Tel.      +49 89 - 722 - 41962
> Hofmannstr.51    Fax       +49 89 - 722 - 22187
> D-81359 Muenchen Mail: guenter.koellner@icn.siemens.de
>
> http://www.qsl.net/dl4mea
>
>
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 00:46:39 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23844  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 00:46:36 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-53832-1999.12.08-01.01.02--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 7 Dec 1999 23:46:16 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Destination Field - Grid Square  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <103130300b473aeab39000@198.106.196.170>

Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

It would appear that the draft spec does not permit gridsquare as a valid Destination Address data type. Is this correct?

Thanks

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                      Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 02:33:21 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA27990  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 02:33:17 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-53834-1999.12.08-02.47.34--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Jeff King" <jeff@aerodata.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11601-53829-1999.12.08-00.45.24--jeff#aerodata.net@lists.tapr.org>  
Subject: [aprsspec] Re: GENERAL: APRSSPEC 1.0.1g  
Date: Wed, 8 Dec 1999 03:20:35 -0500  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <000201bf4157\$8ea98de0\$0b6cb0d0@concentric.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello Guenter:

----- Original Message -----

From: "Koellner Guenter" <Guenter.Koellner@icn.siemens.de>

>  
> I often thought that the best possibility for APRS to distribute the  
> informtion wide and safe would be that the stations are all using one  
> converse channel. By that, all constraints you are doing for networking in  
> the protocol, it is all already done.

EXACTLY. You of course speak of the ping-pong convers server and  
its descendents.

> Let me explain it in an example: We have a VHF discussion channel on the  
> WWCONVERSE (ch.14345). During the leonides meteor shower over 100 radio  
> amateurs joined and were available for all comments.

"The Digital VHF net"? How about channel 10151 for the APRS feed?

> If such could be done for APRS message distribution, it would gain much  
> because the range even all over the world (remember, its called WW-converse)  
> would be available.

In fact, some of us "outsiders" have tried this already with position reports. It  
works. One of the big advantages of this is the system is distributed and  
if one node goes down, the whole APRS world is not brought to its knees  
as compared to the present proprietary system. Plus its a open software model  
meaning development is typically faster.

>  
> Not at least, we would change from an UI distribution to AX.25 acknowledged  
> distribution, where the packets will become as short as possible, local  
> acknowledged. The only thing we have to add then is a way of setting up the  
> connection to the converse node. We should not talk about handover or such  
> else, even when possible from the protocol, we have to deal with a wide  
> variety of radios which could not be brought into a common behavior, I  
> doubt.

I'm not sure the convers mode is the best for a RF network however.... certainly  
for the internet protocol server (APRSSERVE). However, since the code is  
available for the convers node, it could be modified to support a broadcast

mode.

>

> How about such?

I think your best bet among existing GUI authors might be to talk with Roger Barker the author of UI View. I can't speak for him, but in my conversations with him he always seemed most interested in doing things the "right way" as opposed to the way everyone else does things.

73

Jeff wb8wka

P.S. For those interested in what a convers server looks like type the following into your telnet program:

telnet 44.102.16.21 3600

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 02:55:13 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA28231  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 02:55:12 -0600 (CST)

From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: several subjects

Date: Wed, 08 Dec 1999 10:56:47 +0200

Message-ID: <LYR11589-53835-1999.12.08-03.09.39--

lyris.aprsspec#tapr.org@lists.tapr.org>

References: <LYR13206-53827-1999.12.08-00.35.16--

Paul.Keinanen#sci.fi@lists.tapr.org>

In-Reply-To: <LYR13206-53827-1999.12.08-00.35.16--

Paul.Keinanen#sci.fi@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <i66s4sk4af2q5g8icum62lqie02q00si3r@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 8 Dec 1999 07:21:49 +0100 , Koellner Guenter  
<Guenter.Koellner@icn.siemens.de> wrote:

>SUGGESTION: UTC time and SI-units should be used, I agree to OH3LWR  
>Ref.: all units and time formats in the document

Let me put it this way, I would have very strongly objected the use of non-SI units and lack of support for any other language than English \_if\_ version 1.0 had been a specification for a new, non-existent system. However, since APRS 1.0 specs is only documenting existing practice, so we have to work around existing problems and postpone improvements to the next version of the specification.

One would hope that version 2.0 would contain alternative syntaxes for SI units. For instance in the METAR aviation weather telegram it is possible to use both units. For instance Helsinki, Finland reports now EFHK 36010KT (360 degrees, 10 knots) while St. Petersburg, Russia reports ULLI 21004MPS (210 degrees, 4 m/s). In this way, there will not be any cumulative conversion errors, since the only conversion is done by the software displaying the data in any user selectable format. I was a bit surprised that APRS uses miles/h to report wind and not knots, thus there is going to be quite large errors when converting wind data from METAR to APRS.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 06:29:42 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA12140  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 06:29:40 -0600 (CST)  
Mime-Version: 1.0  
Message-Id: <LYR11589-53840-1999.12.08-06.44.02--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 8 Dec 1999 07:28:03 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Re: several subjects  
Cc: aprsspec@lists.tappr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v04205502b473fec75e65@[165.230.139.231]>  
<LYR11588-53835-1999.12.08-03.09.39--ksproul@vger.rutgers.edu@lists.tappr.org>  
<LYR13206-53827-1999.12.08-00.35.16--Paul.Keinanen#sci.fi@lists.tappr.org>  
<LYR11588-53835-1999.12.08-03.09.39--ksproul@vger.rutgers.edu@lists.tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

You are absolutely correct.. The CURRENT document, (1.0) was specifically to document the CURRENT protocol so we had a solid starting point to enable changes and improvements as we go on...

One of the things we are working on within WinAPRS/MacAPRS/X-APRS is the ability to display different units. We have some of this workign already, and need to get it working more consistently throughout the program.

Keith Sproul

>On Wed, 8 Dec 1999 07:21:49 +0100 , Koellner Guenter  
><Guenter.Koellner@icn.siemens.de> wrote:  
>  
>  
> >SUGGESTION: UTC time and SI-units should be used, I agree to OH3LWR  
> >Ref.: all units and time formats in the document  
>  
>Let me put it this way, I would have very strongly objected the use of  
>non-SI units and lack of support for any other language than English  
>\_if\_ version 1.0 had been a specification for a new, non-existent  
>system. However, since APRS 1.0 specs is only documenting existing  
>practice, so we have to work around existing problems and postpone  
>improvements to the next version of the specification.  
>  
>One would hope that version 2.0 would contain alternative syntaxes for  
>SI units. For instance in the METAR aviation weather telegram it is



>possible to use both units. For instance Helsinki, Finland reports now  
>EFHK 36010KT (360 degrees, 10 knots) while St. Petersburg, Russia  
>reports ULLI 21004MPS (210 degrees, 4 m/s). In this way, there will  
>not be any cumulative conversion errors, since the only conversion is  
>done by the software displaying the data in any user selectable  
>format. I was a bit surprised that APRS uses miles/h to report wind  
>and not knots, thus there is going to be quite large errors when  
>converting wind data from METAR to APRS.

>  
>Paul OH3LWR  
>

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 07:16:31 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA13115  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 07:16:29 -0600 (CST)  
Message-Id: <LYR11589-53845-1999.12.08-07.30.53--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: several subjects  
Date: Wed, 8 Dec 1999 08:16:12 -0500  
From: Steve Dimse <sdimse@netrox.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912081316.IAA09059@raptor.netrox.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>>SUGGESTION: UTC time and SI-units should be used, I agree to OH3LWR  
>>Ref.: all units and time formats in the document  
>  
>Let me put it this way, I would have very strongly objected the use of  
>non-SI units and lack of support for any other language than English

>\_if\_ version 1.0 had been a specification for a new, non-existent  
>system. However, since APRS 1.0 specs is only documenting existing  
>practice, so we have to work around existing problems and postpone  
>improvements to the next version of the specification.

>

Since, in general, the actual packets are not looked at by humans, it  
doesn't matter what the units are. They can be converted and displayed in  
any units a programmer wants. All that matters is that everyone agree on  
what the units are. That is the purpose of the spec.

At this point, changing the units in version 2 would result in a (likely  
temporary) worsening of the situation, since a change like this would  
effectively double the number of packets a program must parse. If and  
when the subject comes up in the future, I will argue strongly against  
making such a change...

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 09:19:37 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16623  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 09:19:34 -0600 (CST)  
Message-ID: <LYR11589-53860-1999.12.08-09.33.56--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Date: Wed, 08 Dec 1999 10:19:17 -0500  
From: Boyd Prestwood K5YKG <[k5ykg@bellatlantic.net](mailto:k5ykg@bellatlantic.net)>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] ERROR/CORRECTION?  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <384E76F5.17D42296@bellatlantic.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Re: Draft Version 1.0.1g (12/03/99)

Page 53 - STORM DATA

The format of the chart appears to be incorrect based on the format described in WX.TXT of WB4APR's APRSdos. I know the WX.TXT format works as I've used it for 7 years to report the storms.

Is page 53 in error or is the format being changed?

The WX.TXT format is:

CSE/SPD/HC/www^GGG/ppp>RRR&rrr

The New SPEC shows:

CSE/SPD/HC/www^ggg>RRR&rrr/ppp

Point: The RADIUS indicators and the PRESSURE indicator are reversed...

This is a great piece of documentation!

Thanks for listening es good luck.

73 de Boyd Prestwood K5YKG

Southern New Jersey

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 09:21:48 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16672

for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 09:21:45 -0600 (CST)

Message-ID: <LYR11589-53861-1999.12.08-09.36.07--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Sampson, Steve - (TRW)TAFB/B2" <steve.sampson@b2mx.tinker.af.mil>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] GENERAL: Math Symbolology

Date: Wed, 8 Dec 1999 09:21:31 -0600

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <1A70A69423FCD21196D000204808899E0F5523@b2po1.tinker.af.mil>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

1. I am in favor of changing the B.A.S.I.C. examples to real math symbols.

Discussion:

When I see SQR I think square, but in this case it really means sqrt(). Also there is some exponential's that are confusing. On page 33 for example there is a  $1.08 \times 10^{-1}$ . Further examples verify that it uses normal precedence, but use of parenthesis could make the math clear without examples. Real math symbology would be in line with the goals specified (to not be "dry as dust").

73,  
Steve

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 09:34:16 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17016  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 09:34:13 -0600 (CST)  
Message-ID: <LYR11589-53862-1999.12.08-09.48.38--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
From: "Sampson, Steve - (TRW)TAFB/B2" <[steve.sampson@b2mx.tinker.af.mil](mailto:steve.sampson@b2mx.tinker.af.mil)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] GENERAL: WIDEn-N  
Date: Wed, 8 Dec 1999 09:34:00 -0600  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <1A70A69423FCD21196D000204808899E0F5524@b2po1.tinker.af.mil>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

It's not obvious in the description of WIDEn-N on page 11 that n and N should initially be the same. That the first n is used to determine the packet time to live (TTL).

73,  
Steve

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 09:35:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17051  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 09:35:38 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 8 Dec 1999 10:34:51 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Destination Field - Grid Square  
In-Reply-To: <[LYR11586-53832-1999.12.08-01.01.02--bruninga@nadm.navy.mil@lists.tapr.org](mailto:LYR11586-53832-1999.12.08-01.01.02--bruninga@nadm.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-53863-1999.12.08-09.50.01--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-53863-1999.12.08-09.50.01--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GSO.4.05L.9912081032380.19239-100000@arctic](mailto:Pine.GSO.4.05L.9912081032380.19239-100000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Tue, 7 Dec 1999, Jim Wagner wrote:

> It would appear that the draft spec does not permit gridsquare as a valid  
> Destination Address data type. Is this correct?

All authors agreed to drop that existing method as being obsolete. it is cumbersome to implement, sinc it is placing data in the Destination address field. Requires KISS mode to do it effectively, and also the Kenwood radios would ignore the packet. THus we came up with the gird-in-status format that can be received backwards compatible to all systems...

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 09:45:20 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17220  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 09:45:16 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 8 Dec 1999 10:44:29 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: several subjects  
In-Reply-To: <LYR11586-53835-1999.12.08-03.09.39--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-53867-1999.12.08-09.59.42--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912081039020.19239-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 8 Dec 1999, Paul Keinanen wrote:

> Let me put it this way, I would have very strongly objected the use of  
> non-SI units and lack of support for any other language than English  
> \_if\_ version 1.0 had been a specification for a new, non-existent  
> system. However, since APRS 1.0 specs is only documenting existing  
> practice, so we have to work around existing problems and postpone  
> improvements to the next version of the specification.

True. Historically, formats needed to be human readable back 8 years ago to give APRS backwards compatibility with people running conventional packet without APRS software. But we stuck with those formats since these days the users always uses APRS software on receipt, and that software can do any needed conversions to what ever the user desires. There is no need to encumber the on air format with multiple units, but I do agree in the posting that the standard conversion factors be included in the spec...

bob

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 10:00:43 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA17610  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 8 Dec 1999 10:00:42 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 8 Dec 1999 11:00:22 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: GENERAL: WIDEn-N  
In-Reply-To: <[LYR11586-53862-1999.12.08-09.48.38--bruninga#nadn.navy.mil@lists.tapr.org](mailto:LYR11586-53862-1999.12.08-09.48.38--bruninga#nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-53868-1999.12.08-10.15.02--lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-53868-1999.12.08-10.15.02--lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GS0.4.05L.9912081059120.19239-1000000@arctic](mailto:Pine.GS0.4.05L.9912081059120.19239-1000000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 8 Dec 1999, Sampson, Steve -(TRW)TAFB/B2 wrote:

> It's not obvious in the description of WIDEn-N on page 11 that  
> n and N should initially be the same. That the first n is used to  
> determine the packet time to live (TTL).

Actually, I guess the final -N is the TTL, and the initial n is just a  
record copy so that when it arrives, you know what it was when it  
started... Thus you know the number of hops...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 10:08:39 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA17852  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 10:08:34 -0600 (CST)  
Message-ID: <LYR11589-53872-1999.12.08-10.23.00--  
lyris.aprsspec@lists.tapr.org>  
Date: Wed, 8 Dec 1999 16:05:51 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Units (was "several subjects")  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <SsKEIVAfHoT4EwgD@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-53845-1999.12.08-07.30.53--ian@dowrmain.demon.co.uk  
@lists.tapr.org>, Steve Dimse <sdimse@netrox.net> writes

>Since, in general, the actual packets are not looked at by humans, it  
>doesn't matter what the units are. They can be converted and displayed in  
>any units a programmer wants. All that matters is that everyone agree on  
>what the units are. That is the purpose of the spec.  
>

That's correct. The spec covers the \*ON-AIR\* data formats, not the  
application display formats. It's up to the application to perform the  
necessary units conversions to suit the user's preferences.

BTW, somebody said there might be inaccuracies in converting between one  
set of units and another. In fact, the conversions can be made as  
accurate or as inaccurate as you like -- that's an application issue.  
Much more important is to realize that the original data may itself be  
very inaccurate (for example, there may easily be a 10% error in some  
weather station readings, so there's no point in worrying about a 1%  
error in units conversion). [1]

It's true that there is a crazy mixup of units in the protocol, arising



mostly from different data sources generating outputs in different units (and partly for no apparent good reason at all). It doesn't look pretty in some places, but we're stuck with it in the \*ON-AIR\* protocol. There would be one heck of a backward compatibility problem if we changed the on-air formats now.

[1] This reminds me of the situation in England several years ago, when the government of the day threatened to metricate everything. Enterprising roadsign manufacturers started producing dual-standard signs, showing something like a (very approximate) distance of 1 mile, together with the (very accurate) metric equivalent of 1.60953 km ..... They didn't last long.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800  [I091SX]           ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net                |
|                               |                                    |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 13:05:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23431  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 13:04:56 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: several subjects  
Date: Wed, 08 Dec 1999 21:06:08 +0200  
Message-ID: <LYR11589-53883-1999.12.08-13.19.03--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR13206-53845-1999.12.08-07.30.53--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
In-Reply-To: <LYR13206-53845-1999.12.08-07.30.53--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <qvat4s84o9fkua hdjr88n695tlpc2mr6m3@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 8 Dec 1999 08:16:12 -0500, Steve Dimse <sdimse@netrox.net>  
wrote:

>>>SUGGESTION: UTC time and SI-units should be used, I agree to OH3LWR  
>>>Ref.: all units and time formats in the document  
>>  
>>Let me put it this way, I would have very strongly objected the use of  
>>non-SI units and lack of support for any other language than English  
>>\_if\_ version 1.0 had been a specification for a new, non-existent  
>>system. However, since APRS 1.0 specs is only documenting existing  
>>practice, so we have to work around existing problems and postpone  
>>improvements to the next version of the specification.  
>>  
>Since, in general, the actual packets are not looked at by humans, it  
>doesn't matter what the units are. They can be converted and displayed in  
>any units a programmer wants. All that matters is that everyone agree on  
>what the units are. That is the purpose of the spec.

This is only true as long as the transfer encoding has more precision  
than the display format. In this way the displayed data can be rounded  
properly and in most cases the last digit is displayed correctly.

Thus feet is a usable encoding if the (source and) display format is  
in feet or meters (but not if the display unit is 0.1 m).

However mile is not a good transfer encoding if the (source and)  
display format is either miles or kilometers, in this case kilometer  
would be a better encoding. If you insist on using imperial units,  
then the transfer encoding should be in 1/2 miles (whatever that is  
called, but most likely that also has a name :-).

No matter what the transfer encoding is, the goal should be that the  
displayed value is identical in all places and displayable with  
comparable resolution as the data source.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 8 22:05:14 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA10319  
for <lyris.aprsspec@tapr.org>; Wed, 8 Dec 1999 22:05:12 -0600 (CST)  
Message-ID: <LYR11589-54151-1999.12.08-22.19.39--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 08 Dec 1999 23:03:27 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Destination Field - Grid Square  
X-Priority: 2 (High)  
References: <LYR11610-53863-1999.12.08-09.50.01--  
propnet#greeceny.com@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <384F2A0F.EF7A127A@greeceny.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Please, I don't mean to come off as argumentative, but I was under the impression that the APRSspec was intended to document what is \*presently\* supported, not what is agreed to for the future. As such the "Grid-in-T0" format should be there.

To be fair, I haven't fully read through the spec document, so I may be commenting out of context (is "Grid in Destination Field" the same as "Grid in To"?). Even so, version 1.0 should, according to the charter of the APRSspec activity, document what exists now, rather than what today's authors have agreed to for the future.

Ev, W2EV

> > It would appear that the draft spec does not permit gridsquare as a valid  
> > Destination Address data type. Is this correct?  
>  
> All authors agreed to drop that existing method as being obsolete. it is  
> cumbersome to implement, sinc it is placing data in the Destiination

> address field. Requires KISS mode to do it effectively, and also the  
> Kenwood radios would ignore the packet. Thus we came up with the  
> gird-in-status format that can be received backwards compatible to all  
> systems...  
>  
> bob  
>  
> ---  
> You are currently subscribed to aprsspec as: propnet@greeceny.com  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

--  
PropNET: an automated network, designed to  
study propagation anomalies. Intreagued?  
<http://www.RochesterNY.org/PropNET>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 9 07:54:32 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA08910  
for <lyris.aprsspec@tappr.org>; Thu, 9 Dec 1999 07:54:31 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 9 Dec 1999 08:54:12 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Destination Field - Grid Square  
In-Reply-To: <LYR11586-54151-1999.12.08-22.19.39--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-54281-1999.12.09-08.08.56--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9912090851080.20747-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Wed, 8 Dec 1999, Ev Tupis (W2EV) wrote:

> Please, I don't mean to come off as argumentative, but I was under the  
> impression that the APRSpec was intended to document what is \*presently\*  
> supported, not what is agreed to for the future. As such the "Grid-in-T0"  
> format should be there.  
>  
> To be fair, I haven't fully read through the spec document, so I may be  
> commenting out of context (is "Grid in Destination Field" the same as "Grid in  
> To"?). Even so, version 1.0 should, according to the charter of the APRSpec  
> activity, document what exists now, rather than what today's authors have  
> agreed to for the future.

Well, you make a good point, but putting in a format that is obsolete, and incompatible with the largest segment of APRS (Thousands of THD7's, that is larger than all registered copies of all versions of APRS combined), did not seem to make sense. We did not want to encourage continued use of such a format... But maybe we should have put it in and marked it as obsolete...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 9 16:01:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23734  
for <lyris.aprsspec@tapr.org>; Thu, 9 Dec 1999 16:01:15 -0600 (CST)  
Message-Id: <LYR11589-54344-1999.12.09-16.15.41--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Destination Field - Grid Square  
Date: Thu, 9 Dec 1999 16:57:37 -0500  
x-sender: sdimse@m1.sprynet.com  
From: Steve Dimse <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199912092200.RAA16506@fb02.eng00.mindspring.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/8/99 11:03 PM Ev Tupis (W2EV) (propnet@greeceny.com) wrote:

>Please, I don't mean to come off as argumentative, but I was under the  
>impression that the APRSSpec was intended to document what is \*presently\*  
>supported, not what is agreed to for the future. As such the "Grid-in-T0"  
>format should be there.

>

The authors had previously discussed and agreed that this format was  
obsolete and was to be phased out. The user-defined format, and the  
base-91 format are other example of things which were not used or  
documented previously, but which had been agreed to by the authors prior  
to the formation of the APRSWG.

I think rather than "what is currently supported", "what is currently  
accepted" would be a more accurate description of the document...

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 03:32:27 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA29299  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 03:32:25 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
Date: Fri, 10 Dec 1999 11:34:03 +0200  
Message-ID: <LYR11589-54419-1999.12.10-03.46.53--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR13206-54344-1999.12.09-16.15.41--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
In-Reply-To: <LYR13206-54344-1999.12.09-16.15.41--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>  
X-Message-Id: <2a915s07c0h7g5emh06f89obk9gj7eiiq3@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

On Thu, 9 Dec 1999 16:57:37 -0500, Steve Dimse <k4hg@tapir.org> wrote:

>On 12/8/99 11:03 PM Ev Tupis (W2EV) (propnet@greeceny.com) wrote:  
>  
>>Please, I don't mean to come off as argumentative, but I was under the  
>>impression that the APRSSpec was intended to document what is \*presently\*  
>>supported, not what is agreed to for the future. As such the "Grid-in-T0"  
>>format should be there.  
>>  
>The authors had previously discussed and agreed that this format was  
>obsolete and was to be phased out. The user-defined format, and the  
>base-91 format are other example of things which were not used or  
>documented previously, but which had been agreed to by the authors prior  
>to the formation of the APRSWG.

So, base-91 is not currently a widely implemented feature.

I did not find a motivation in the document why such an obscure encoding was invented, so could some please explain the motivation behind it.

The base-91 encoding is clearly not intended for direct consumption, so if your aim is to reduce the transmitted AX.25 frame length, why not go directly to binary representation, in which you can represent 256 different values in a single byte or 65536 different values can be used with two bytes.

The AX.25 protocol allows all 256 values in an octet, so there should be no need for such things as base-91. I know, there are bad implementations that strips the most significant byte or use some bit combinations for flow control or mode switching.

IMHO, it is a scandalous that the packet network is not 8 bit transparent in 1999. Designing all new protocols in this limitation in mind, will result that there is no motivation for updating equipment to be 8 bit clean. If some popular application will require 8 bit transparent transfer that will motivate upgrading systems.

In this case there is a well established non-compressed format, so this transition from non-compressed 7 bit human readable format to 8 bit transparent compressed format can be done in each area when there is a sufficient number of equipment supporting the compressed format.

As a final result, the packet network will be 8 bit transparent, which will also benefit other applications.

A similar example is the internet e-mail, which in the rest of the world has been 8 bit clean for years, only sites in UK and the US did not want to upgrade. Fortunately the sendmail application was full of security holes, so all sites had to upgrade to newer versions that as a byproduct were 8 bit clean :-).

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 08:34:01 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA06593  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 10 Dec 1999 08:34:00 -0600 (CST)  
Message-Id: <LYR11589-54431-1999.12.10-08.48.29--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
Date: Fri, 10 Dec 1999 09:29:07 -0500  
x-sender: [sdimse@m1.sprynet.com](mailto:sdimse@m1.sprynet.com)  
From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912101431.JAA16604@fb02.eng00.mindspring.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/10/99 4:34 AM Paul Keinanen ([keinanen@sci.fi](mailto:keinanen@sci.fi)) wrote:

>So, base-91 is not currently a widely implemented feature.  
>

No, but it has been implemented in the new Kenwood D700, which makes it "cast in stone" as far as we are concerned.

>I did not find a motivation in the document why such an obscure



>encoding was invented, so could some please explain the motivation  
>behind it.

>

>...

>The AX.25 protocol allows all 256 values in an octet, so there should  
>be no need for such things as base-91. I know, there are bad  
>\_implementations\_ that strips the most significant byte or use some  
>bit combinations for flow control or mode switching.

>

So you answered your own question. 91 characters are the most contiguous  
values that are guaranteed to be passed through all TNCs.

>IMHO, it is a scandalous that the packet network is not 8 bit  
>transparent in 1999. Designing all new protocols in this limitation in  
>mind, will result that there is no motivation for updating equipment  
>to be 8 bit clean. If some popular application will require 8 bit  
>transparent transfer that will motivate upgrading systems.

>

The trouble is hams are cheap. Many will leave the hobby before they will  
spend real cash. There are too few hams already, we want to do everything  
we can to encourage people to use APRS. APRS is designed to be used with  
older equipment, because many hams have old TNCs laying around their  
house, they can dust them off and get on the air.

So be scandalized, but maintaining compatibility with as much equipment  
and software as possible is a guiding principle of APRS.

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 09:59:09 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA08914  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 09:59:07 -0600 (CST)  
Message-ID: <LYR11589-54442-1999.12.10-10.13.35--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
From: "Sampson, Steve - (TRW)TAFB/B2" <steve.sampson@b2mx.tinker.af.mil>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] RE: several subjects  
Date: Fri, 10 Dec 1999 09:58:40 -0600  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <1A70A69423FCD21196D000204808899E0F5527@b2po1.tinker.af.mil>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

>Since, in general, the actual packets are not looked at by humans, it  
>doesn't matter what the units are.

This is reasonable. APRS-NG can set a goal of SI double precision,  
but you will have to learn French, and use kilometres :-)

73,  
Steve, K50KC

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 10 13:38:48 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15927  
for <lyris.aprsspec@tappr.org>; Fri, 10 Dec 1999 13:38:47 -0600 (CST)  
Message-ID: <LYR11589-54473-1999.12.10-13.53.12--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 10 Dec 1999 19:32:03 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11659-54419-1999.12.10-03.46.53--  
ian#dowrmain.demon.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <GRGRHKAzUVU4Ewp9@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR11659-54419-1999.12.10-03.46.53--ian#dowrmain.demon.co.uk  
@lists.tappr.org>, Paul Keinanen <keinanen@sci.fi> writes

>I did not find a motivation in the document why such an obscure  
>encoding was invented, so could some please explain the motivation

>behind it.

Base 91 is a neat trick to ensure that on-air characters are printable ASCII. In the same way as base 10 encompasses the number range 0-9, base 91 encompasses the number range 0-90. If you then add 33 to any base 91 value, you get an ASCII character in the range 33 ("!") to 123 ("{"). This stops just short of "|", which may upset a TNC.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net             |
|                               |                                 |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 15:32:33 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19414

for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 15:32:31 -0600 (CST)

Errors-To: <jeff@aerodata.net>

Message-ID: <LYR11589-54488-1999.12.10-15.46.58--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Fri, 10 Dec 1999 16:27:45 -0500

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,  
Koellner Guenter <Guenter.Koellner@icn.siemens.de>

Subject: [aprsspec] FUTURE: APRS-WG open mind? (was re: Base 91)

References: <LYR11601-54431-1999.12.10-08.48.29--jeff#aerodata.net@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38517051.EB0B326E@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

NOTE:

This message *\*only\** covers future extensions to APRS. I am not criticizing the fine editorial work done on the PDF APRS draft 1.0 or its stated intent. (well, I have a few minor issues, but I'll save those for another day)

I'm writing this because I am concerned that good ideas are being dismissed offhand, or in some cases, apparently not even being considered by the WG. I feel this is wrong and goes against the amateur goal of technical achievement.

Steve Dimse wrote:

> On 12/10/99 4:34 AM Paul Keinanen (keinanen@sci.fi) wrote:  
>  
>  
> >IMHO, it is a scandalous that the packet network is not 8 bit  
> >transparent in 1999. Designing all new protocols in this limitation in  
> >mind, will result that there is no motivation for updating equipment  
> >to be 8 bit clean. If some popular application will require 8 bit  
> >transparent transfer that will motivate upgrading systems.  
> >  
> The trouble is hams are cheap. Many will leave the hobby before they will  
> spend real cash. There are too few hams already, we want to do everything  
> we can to encourage people to use APRS. APRS is designed to be used with  
> older equipment, because many hams have old TNCs laying around their  
> house, they can dust them off and get on the air.  
>  
> So be scandalized, but maintaining compatibility with as much equipment  
> and software as possible is a guiding principle of APRS.

We need to make something clear here. IT IS THE WORKING GROUP's GUIDING PRINCIPLE. I don't think all U.S. hams that use APRS/AAVL technology should take a bum rap for this. European packet radio technology, for the most part, is now far ahead of U.S. technology. The fact that we are getting these types of comments from non-U.S. hams (bit efficiency, SI units, WWconvers nodes, etc.) shows there is a WIDE WORLD out there that knows the issues. The WG would be well advised to consider some of these things. These people know what they are talking about.

And by the way, the majority of hams are \*not\* cheap. Penny wise, and pound foolish, maybe.... In any case, a USED MFJ-1270 can pass 8bit data, so if someone can't afford a \$75US TNC hooked to a \$1500 computer feeding a \$300 radio, powered by their \$100 power supply, feeding \$50 of coax to a \$200 antenna, with a \$80+ APRS program, I just can't believe these "hams are cheap", they are simply foolish. The "foolish ham" might be outspoken, but clearly they are not the majority, and as such, fools shouldn't be allowed to cripple the progress of APRS/AAVL.

And oh, BTW, both WIN-APRS and UI-View support AGWPE, which lowers the cost of a 8 bit transparent TNC under \$50, or -0- if you already have a sound card in your computer. Lets not base the future of APRS on some unsound/flawed economic assumptions.

If you design for the lowest common denominator, which apparently the WG is, then that is EXACTLY what you will get. At the very least, I would ask the WG to hold the door open for these types of things in version 2. But instead, in another message, we are seeing a member of the WG telling us how they are going to vote (NO) on things that haven't even been brought up officially for version 2.0 of the draft (the SI issue). This is what is scandalous.

We were originally told by TAPR that an open APRS protocol SIG-LIST would be created for these very technical/protocol issues. Then this got changed to "APRS-SPEC", which is apparently intended only for minor/typo corrections to the draft. And now it has been learned that there is indeed an active APRS protocol list, except it is a WG members only private list not open for public participation or even observation!!

Since we are talking about the future of APRS/AAVL, and the WG is a closed organization, I feel the WG owes the entire amateur community an open mind, and to be receptive to new ideas/technologies.

Comments anyone?

Sincerely

-Jeff wb8wka

P.S. Please read NOTE at head of message.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 10 15:43:11 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19748  
for <lyris.aprsspec@tappr.org>; Fri, 10 Dec 1999 15:43:10 -0600 (CST)  
Date: Fri, 10 Dec 1999 15:42:57 -0600 (CST)  
From: Guy Story <kc5goi@tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11832-54431-1999.12.10-08.48.29--kc5goi#tappr.org@lists.tappr.org>  
Message-ID: <LYR11589-54492-1999.12.10-15.57.42--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.BSI.4.20.9912101539210.19586-1000000@tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I agree with Steve's standpoint on old gear. When I do a presentation to a club or group I always address first that APRS can be run on a tnc that may go back to the early days of tnc-2. I have received email from hams that are very cheap but already have a tnc an radio that has not been touched in years. While being cheap can be a hinderance you can use it to your advantage. While packet is not a new technology, what we are appling to is is realativly new and can get some "old timers" back in the art. I have reviewed parts of the spec and find that it is a good document and I offer my thanks to everyone on the comittee. Good work guys.

Guy Story  
KC5G0I  
kc5goi@tappr.org  
<http://www.kc5goi.net>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 10 16:21:56 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA21090  
for <lyris.aprsspec@tappr.org>; Fri, 10 Dec 1999 16:21:54 -0600 (CST)  
Message-Id: <LYR11589-54498-1999.12.10-16.36.27--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>,  
Koellner Guenter <Guenter.Koellner@icn.siemens.de>, jra@meow.febo.com  
Subject: [aprsspec] Re: FUTURE: APRS-WG open mind? (was re: Base 91)  
In-reply-to: Your message of "Fri, 10 Dec 1999 16:27:45 EST."  
<LYR11592-54488-1999.12.10-15.46.58--n8ur#tappr.org@lists.tappr.org>  
Date: Fri, 10 Dec 1999 17:21:34 -0500  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912102221.RAA03039@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In message <LYR11592-54488-1999.12.10-15.46.58--n8ur#tappr.org@lists.tappr.org>,  
Jeff King writes:

>We were originally told by TAPR that an open APRS protocol SIG-LIST  
>would be created for these very technical/protocol issues. Then this  
>got changed to "APRS-SPEC", which is apparently intended only for  
>minor/typo corrections to the draft. And now it has been learned that  
>there is indeed an active APRS protocol list, except it is a WG members only  
>private list not open for public participation or even observation!!

I'm not going to reply to Jeff's other comments (lack of time right now,  
and perhaps knowledge as well), but this statement is flat out wrong and  
needs to be corrected.

The APRS-SPEC mailing list is indeed intended for public discussion of  
APRS protocol issues. It is being used right now as the preferred way  
to post issues about the specification document that is on the table --  
and I think most of the WG members would prefer that we focus on that  
document rather than addressing new issues -- but we have never said that  
broader discussions of the protocol are not appropriate for here.

John N8UR  
jra@febo.com

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 16:49:56 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22358  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 16:49:53 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54503-1999.12.10-17.04.08--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Fri, 10 Dec 1999 17:44:36 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,  
Koellner Guenter <Guenter.Koellner@icn.siemens.de>  
Subject: [aprsspec] Re: FUTURE: APRS-WG open mind? (was re: Base 91)  
References: <199912102221.RAA03039@meow.febo.com>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38518254.68BFDD97@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi John:

John Ackermann wrote:

> In message <LYR11592-54488-1999.12.10-15.46.58--n8ur#tapr.org@lists.tapr.org>,  
> Jeff King writes:  
>  
> >We were originally told by TAPR that an open APRS protocol SIG-LIST  
> >would be created for these very technical/protocol issues. Then this  
> >got changed to "APRS-SPEC", which is apparently intended only for  
> >minor/typo corrections to the draft. And now it has been learned that  
> >there is indeed an active APRS protocol list, except it is a WG members only  
> >private list not open for public participation or even observation!!  
>  
> I'm not going to reply to Jeff's other comments (lack of time right now,  
> and perhaps knowledge as well), but this statement is flat out wrong and



> needs to be corrected.  
>  
> The APRS-SPEC mailing list is indeed intended for public discussion of  
> APRS protocol issues. It is being used right now as the preferred way  
> to post issues about the specification document that is on the table --  
> and I think most of the WG members would prefer that we focus on that  
> document rather than addressing new issues -- but we have never said that  
> broader discussions of the protocol are not appropriate for here.

As I know your a wordsmith, I need to ask what you mean by  
"ARPS protocol issues"? I of course was refering to the broader  
issues of APRS/.AAVL and how best to implement it. This was my  
laymans approach to it. For the sake of discussion, I will concede  
this.

I therefore stand corrected. My confussion was both the name  
"APRS-SPEC", the fact that so many were dismissed out of hand  
as well as the fact that protocol issues were being  
discussed on the private list. This all lead me to the conclusion that  
APRS-SPEC was just that..... for typo corrections of the APRS-SPEC.  
But, I am wrong as you pointed out and stand corrected.

However, this was a secondary point to my posting. I still think the WG  
as a whole needs to endeavor to keep an open mind. I hope you will  
continue to encourage them as I know you have in the past.

73

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 17:06:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA22948  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 17:06:11 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54506-1999.12.10-17.20.45--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 10 Dec 1999 18:08:17 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en

MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
References: <LYR11601-54492-1999.12.10-15.57.42--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <385187E1.E7014DEC@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Future, Outside of scope of APRS version 1.0

Guy:

All kudos and backslapping aside, did you ever consider the fact that the effort to cater to the "old timers covered with dust" might be a deterrent to the future growth of the hobby? I mean, if I wanted to enter a hobby, I'd want it to be fresh, exciting and technologically advanced. I just can't see all the effort, and ultimate result being to cripple the growth of APRS.

And this whole hog-wash about 7 bit stuff is just that..... hog-wash. 8 bit codes can be run on a 1984 TNC1, let alone on any newer dusty TNC2. Its always been an artificial issue and some people just don't want to let it go.

I've been down the same road you have.... except it was for Spread Spectrum presentations. I of course was involved in the TAPR SS-STA and made many presentations at ham clubs on spread spectrum. As I said before on the SS-list, for the most part the audience's eyes would glaze over. Sure, a few would get it, but most not. As best, they would see it as just another mode. It was a struggle to get one or two seriously interested.

Now, I did do a few presentations at Linux and computer (non-ham) clubs. What a \*refreshing\* difference. These guys saw the light and could understand the new paradigm that spread spectrum could be. And in fact, almost everyone that we had in our SS group was from this Ann Arbor Linux group. Yes, a number were already hams, but they were geeks first, hams second.

I don't think we should be targeting APRS towards "old timers" (meaning technological inferiority) in particular if one of the stated goals of APRS is to

increase the number of U.S. amateur licenses. Its needs to be targeted at people that don't have licenses, that may want to get one in the future. In effect, I'm saying APRS could be a "killer app". Lets just not lobotomize it for the sake of a few dusty hams that can't spring up \$5 for a new ROM for there TNC.

Hey, maybe TAPR still has some money left in the QSY fund? We can call it the ROM fund? What cha' think?

Regards,

Jeff King wb8wka

Guy Story wrote:

> I agree with Steve's standpoint on old gear. When I do a presentation to  
> a club or group I always address first that APRS can be run on a tnc that  
> may go back to the early days of tnc-2. I have received email from hams  
> that are very cheap but already have a tnc an radio that has not been  
> touched in years. While being cheap can be a hinderance you can use it to  
> your advantage. While packet is not a new technology, what we are appling  
> to is is realativly new and can get some "old timers" back in the art. I  
> have reviewed parts of the spec and find that it is a good document and I  
> offer my thanks to everyone on the comittee. Good work guys.

>

> Guy Story

> KC5GOI

> kc5goi@tapr.org

> <http://www.kc5goi.net>

>

> ---

> You are currently subscribed to aprsspec as: jeff@aerodata.net

> To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 18:02:04 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24479

for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 10 Dec 1999 18:02:02 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Fri, 10 Dec 1999 19:01:48 -0500 (EST)

From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>

X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11586-54506-1999.12.10-17.20.45--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-54509-1999.12.10-18.16.36--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912101849450.12944-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

One thing I hoped for in the opening up of APRS was for some of the talent coming on board to help us with better routing. I have always said that the GENERIC DIGIPEATING, was only a termprary way to get APRS to work with existing TNC's, but that a level 3/4 routing or even my simple SSID routing would vastly improve APRS... (Here the TO-CALL SSID is the "hop" indicator; and thus a free byte). We are currently wasting from 7 to 35 bytes in every single packet!

If some of the talent that wants to re-invent APRS were applied to improving the routing, then I think the results would be very productive indeed. All it takes is someone to write EPROM code for the popular TNC's and boy would it sweep through APRSdom....

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 10 18:06:49 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24734  
for <lyris.aprsspec@tappr.org>; Fri, 10 Dec 1999 18:06:47 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54510-1999.12.10-18.21.22--  
lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Fri, 10 Dec 1999 19:08:54 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omission: PIC-E in glossary  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38519614.8E23B7F4@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

MIM and MIC-E are in the glossary but I don't see PIC-E. Might want to include this (as it is mentioned in the text of the document).

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 18:14:17 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24900  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 18:14:17 -0600 (CST)  
Mime-Version: 1.0  
Message-Id: <LYR11589-54512-1999.12.10-18.28.48--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 10 Dec 1999 19:12:51 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@vger.rutgers.edu>  
Subject: [aprsspec] Future of APRS WG  
Cc: jeff@aerodata.net  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <v04205500b4774663b59a@[165.230.139.231]>  
<LYR11588-54488-1999.12.10-15.46.58--ksproul#vger.rutgers.edu@lists.tapr.org>  
<LYR11601-54431-1999.12.10-08.48.29--jeff#aerodata.net@lists.tapr.org>  
<LYR11588-54488-1999.12.10-15.46.58--ksproul#vger.rutgers.edu@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>  
>I'm writing this because I am concerned that good ideas are  
>being dismissed offhand, or in some cases, apparently not even  
>being considered by the WG. I feel this is wrong and goes  
>against the amateur goal of technical achievement.  
>

I am VERY open to new ideas, always have been.. At the moment, I want to get some stuff finished in the CURRENT versions of WinAPRS/MacAPRS/X-APRS.. This are NOT protocol issues, but DISPLAY issues.. There are some things we don't display correctly.. And others we want to improve upon..

Also, I want a chance to make 110% sure, that our software FULLY complies to the new standard.. I also want a chance to breath and enjoy the holidays with family and friends...

I am all for new improvements etc, But, give us a little breathing room after busting our backs for 9 months..

Keith Sproul

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 18:40:47 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25711  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 18:40:46 -0600 (CST)  
Errors-To: <jeff#aerodata.net>

Message-ID: <LYR11589-54516-1999.12.10-18.55.18--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 10 Dec 1999 19:42:51 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] INCONSISTENCY/UNCLEAR: Authors foreword, Page 4  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38519E0B.CC5028E8@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

The author's foreword states in the first paragraph, page 4:

"This reference document describes what is known as APRS protocol  
Version 1.0, and is essentially a description of how APRS operates  
today"

This statement is consistent of what I have seen on the SIG.... that is, all  
those wanting to add enhancements were deferred to the next  
version.

Now in paragraph 4, page 4 again, it states:

"It is important to realize how APRS originated, and to understand the  
design philosophy behind it."

Right, its always good to know how things originated in the past. But  
then the document goes on to say.:

"In particular, we feel strongly that APRS is, and should remain a  
light-weight tactical system -- almost anyone should be able to  
use it in temporary situations (such as emergencies or mobile work or  
weather watching) with the minimum of training and equipment"

Now, not to be picky, is this part of the spec? If so, it goes beyond  
"documenting what we have" and sets a precedent for any further  
development. I think it would be best to delete any future development  
rules and focus on just the protocol itself for now. Save that for version  
2.0

If we leave it, the statement should be re-written to say: "APRS is currently a light-weight tactical system" \*without\* going into any doctrine on how future enhancements should be made.

If we need to define future development now, then this statement needs clarification. That is, what exactly does "light weight tactical system" mean? That anyone should be able to use it? Then we need some parameters on who this "anyone" is, so that software can pass the APRS certification. The way I see it, "light-weight" will evolve over time as the software becomes smarter. If this is understood by the APRS-WG, then I have no problem with the statement as it stands.

Sorry to be anal about this, but I have some ideas for enhancements and want to make sure nothing said in this document will rule them out from future consideration.

-Jeff

If the f

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 10 18:56:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26081  
for <lyris.aprsspec@tapr.org>; Fri, 10 Dec 1999 18:56:33 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54518-1999.12.10-19.11.00--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Fri, 10 Dec 1999 19:58:33 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0



To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] SUGGESTION: Mr. Spock and the RFC's  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <3851A1B9.1EA70678@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

This is minor, but might save some embarrassment when the document is published.

Page 4, paragraph 3 reads:

"It is not intended, however, to be a dry-as-dust, pedantic, RFC-style programming specification, to be read and understood only by the Mr Spocks of this world"

Does this add anything to the document? All it tells me is whoever wrote it has read very few RFC's. FYI, \*anyone\* can write an RFC and stand a good chance of getting it published. And I've seen RFC's that look like they have been written for the "Dear Abby" audience as well as the so called "Mr. Spock" audience.

I'd just delete this section and just say your trying to write a clear document and leave it at that. Taking a swing at those that write RFC's or are fans of "Mr. Spock" is just not required.

BTW, the APRS-WG really should consider submitting the APRS spec to the RFC process. I'm not kidding, at least on the internet side. We hams that do TCP/IP over the air have done so, I see no reason why the APRS hams should not do so.

Its there for a reason and it works (most of the time).

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 10 19:58:08 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA28756  
for <lyris.aprsspec@tappr.org>; Fri, 10 Dec 1999 19:58:03 -0600 (CST)  
Date: Fri, 10 Dec 1999 18:57:52 -0700  
From: "Shawn T. Rutledge" <rutledge@cx47646-a.phnx1.az.home.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: SUGGESTION: Mr. Spock and the RFC's  
Message-ID: <LYR11589-54523-1999.12.10-20.12.36--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
References: <LYR12277-54518-1999.12.10-19.11.00--  
ecloud#bigfoot.com@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
In-Reply-To: <LYR12277-54518-1999.12.10-19.11.00--  
ecloud#bigfoot.com@lists.tappr.org>; from Jeff King on Fri, Dec 10, 1999 at  
07:58:33PM -0500  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <19991210185752.B30300@electron.kb7pwd.ampr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Fri, Dec 10, 1999 at 07:58:33PM -0500, Jeff King wrote:

> This is minor, but might save some embarrassment when the  
> document is published.  
>  
> Page 4, paragraph 3 reads:  
>  
> "It is not intended, however, to be a dry-as-dust, pedantic, RFC-style  
> programming specification, to be read and understood only by the  
> Mr Spocks of this world"  
>  
> Does this add anything to the document? All it tells me is whoever wrote  
> it has read very few RFC's. FYI, \*anyone\* can write an RFC and stand  
> a good chance of getting it published. And I've seen RFC's that look  
> like they have been written for the "Dear Abby" audience as well  
> as the so called "Mr. Spock" audience.  
>  
> I'd just delete this section and just say your trying to write a clear  
> document and leave it at that. Taking a swing at those that  
> write RFC's or are fans of "Mr. Spock" is just not required.

>  
> BTW, the APRS-WG really should consider submitting the APRS  
> spec to the RFC process. I'm not kidding, at least on the internet  
> side. We hams that do TCP/IP over the air have done so, I see no  
> reason why the APRS hams should not do so.  
>  
> Its there for a reason and it works (most of the time).

I second all the above. Good points.

--

-----  
( \_ | | ) ecloud@bigfoot.com finger rutledge@cx47646-a.phnx1.az.home.com  
-- ) | | \-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 08:41:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04217  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 08:41:28 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: SUGGESTION: Mr. Spock and the RFC's  
Date: Sat, 11 Dec 1999 16:43:15 +0200  
Message-ID: <LYR11589-54602-1999.12.11-08.55.59--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR13206-54518-1999.12.10-19.11.00--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
In-Reply-To: <LYR13206-54518-1999.12.10-19.11.00--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <u0n45ssg7li87q2mnh7l8b82rit0jtd3nq@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 10 Dec 1999 19:58:33 -0500, Jeff King <jeff@aerodata.net>  
wrote:

>This is minor, but might save some embarrassment when the  
>document is published.  
>  
>Page 4, paragraph 3 reads:  
>  
> "It is not intended, however, to be a dry-as-dust, pedantic, RFC-style  
> programming specification, to be read and understood only by the  
> Mr Spocks of this world"  
>  
>Does this add anything to the document? All it tells me is whoever wrote  
>it has read very few RFC's. FYI, \*anyone\* can write an RFC and stand  
>a good chance of getting it published. And I've seen RFC's that look  
>like they have been written for the "Dear Abby" audience as well  
>as the so called "Mr. Spock" audience.  
>  
>I'd just delete this section and just say your trying to write a clear  
>document and leave it at that. Taking a swing at those that  
>write RFC's or are fans of "Mr. Spock" is just not required.

I was also amused reading this paragraph. If you want to impress  
someone, at least refer to ITU-R/ITU-T (previously CCIR/CCITT)  
documents in which you really had to play Devil's Advocate in order  
to avoid all the pitfalls in the documentation :-).

A document like the APRS 1.0 specification should be easily readable  
(which it is) and should also include warnings of typical programming  
pitfalls (e.g. not using the exact conversion coefficients in unit  
conversion or the problem with upper case/lower case in locators).

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 08:41:42 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04227  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 11 Dec 1999 08:41:40 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
Date: Sat, 11 Dec 1999 16:43:19 +0200  
Message-ID: <LYR11589-54603-1999.12.11-08.56.10--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>

References: <199912101431.JAA16604@fb02.eng00.mindspring.net>  
In-Reply-To: <199912101431.JAA16604@fb02.eng00.mindspring.net>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <26145sg9r51dphg0vv0fo5u4k1gpqj7460@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 10 Dec 1999 09:29:07 -0500, Steve Dimse <k4hg@tapr.org> wrote:

>On 12/10/99 4:34 AM Paul Keinanen (keinanen@sci.fi) wrote:

>

>>So, base-91 is not currently a widely implemented feature.

>>

>No, but it has been implemented in the new Kenwood D700, which makes it  
>"cast in stone" as far as we are concerned.

Documenting what some hardware manufacturer has done is a good thing,  
but endorsing something (by not telling that this is something  
vendor specific) is quite questionable.

>The trouble is hams are cheap. Many will leave the hobby before they will  
>spend real cash. There are too few hams already, we want to do everything  
>we can to encourage people to use APRS. APRS is designed to be used with  
>older equipment, because many hams have old TNCs laying around their  
>house, they can dust them off and get on the air.

As I said in the original message, there are human readable formats  
available, so if anyone wants to broadcast a message, this can be done  
using the existing formats. However, if someone wants to transmit the  
data in only machine readable compressed form, in order to minimise  
the message length, why not simply use binary representation.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Dec 11 08:42:23 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04264  
for <lyris.aprsspec@tappr.org>; Sat, 11 Dec 1999 08:42:21 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
Date: Sat, 11 Dec 1999 16:43:22 +0200  
Message-ID: <LYR11589-54604-1999.12.11-08.56.16--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
References: <LYR11659-54419-1999.12.10-03.46.53--  
ian#dowrmain.demon.co.uk@lists.tappr.org> <LYR13206-54473-1999.12.10-13.53.12--  
Paul.Keinanen#sci.fi@lists.tappr.org>  
In-Reply-To: <LYR13206-54473-1999.12.10-13.53.12--  
Paul.Keinanen#sci.fi@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <4em45sor5qv0s3ffhjbbgdi7it2s62am7r@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Fri, 10 Dec 1999 19:32:03 +0000, Ian Wade  
<ian@dowrmain.demon.co.uk> wrote:

>In article <LYR11659-54419-1999.12.10-03.46.53--ian#dowrmain.demon.co.uk  
>@lists.tappr.org>, Paul Keinanen <keinanen@sci.fi> writes  
>  
>>I did not find a motivation in the document why such an obscure  
>>encoding was invented, so could some please explain the motivation  
>>behind it.  
>  
>Base 91 is a neat trick to ensure that on-air characters are printable  
>ASCII. In the same way as base 10 encompasses the number range 0-9, base  
>91 encompasses the number range 0-90. If you then add 33 to any base 91  
>value, you get an ASCII character in the range 33 ("!") to 123 ("{").  
>This stops just short of "|", which may upset a TNC.

Ian,

Thanks for the explanation, the situation is as bad as I have  
feared:-).

If this vendor specific format is really going to be endorsed by including it into the APRS 1.0 specification, then this clarification is really needed in the specification, since amateur radio seems to be the only place where people still struggle with 7 bit characters.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 10:46:55 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA08578  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 10:46:52 -0600 (CST)  
Message-Id: <LYR11589-54614-1999.12.11-11.01.21--  
lyris.aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
Date: Sat, 11 Dec 1999 11:41:42 -0500  
x-sender: sdimse@m1.sprynet.com  
From: Steve Dimse <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912111646.LAA04691@smtp7.atl.mindspring.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/11/99 9:43 AM Paul Keinanen (keinanen@sci.fi) wrote:

>On Fri, 10 Dec 1999 09:29:07 -0500, Steve Dimse <k4hg@tapr.org> wrote:  
>  
>>On 12/10/99 4:34 AM Paul Keinanen (keinanen@sci.fi) wrote:  
>>  
>>>So, base-91 is not currently a widely implemented feature.  
>>>  
>>No, but it has been implemented in the new Kenwood D700, which makes it  
>>"cast in stone" as far as we are concerned.  
>  
>Documenting what some hardware manufacturer has done is a good thing,

>but endorsing something (by \_not\_ telling that this is something  
>vendor specific) is quite questionable.

>

You have this wrong. This isn't something vendor specific that Kenwood came up with. It was a format developed by and agreed to the authors. It was then given to Kenwood along with the rest of the APRS formats, and they implemented it in the new radio.

The thing is that once these protocols are implemented in a hardware device they become set in stone, or more accurately silicon! Yes, ROMS can be replaced, EEPROMS reprogrammed, but it becomes quite a task and not one undertaken lightly...

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 11:29:01 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA10025  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 11 Dec 1999 11:28:57 -0600 (CST)  
From: [steve.sampson@hushmail.com](mailto:steve.sampson@hushmail.com)  
Message-Id: <LYR11589-54617-1999.12.11-11.43.30--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Sat, 11 Dec 1999 12:21:22 -0500 (EST)  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912111724.JAA23078@mail1.hushmail.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I for one see your point about 7 bit characters. There's no need to beat it to death. Just document it, and press on.

Suffice to say that a future protocol will have to use Unicode as a minimum.

>If this vendor specific format is really going to be endorsed by  
>including it into the APRS 1.0 specification, then this clarification  
>is really needed in the specification, since amateur radio seems to  
>be the only place where people still struggle with 7 bit characters.



IMPORTANT NOTICE: If you are not using HushMail, this message could have been read easily by the many people who have access to your open personal email messages.

Get your FREE, totally secure email address at <http://www.hushmail.com>.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 12:08:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11005  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 11 Dec 1999 12:08:28 -0600 (CST)  
Message-Id: <LYR11589-54621-1999.12.11-12.22.36--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 11 Dec 1999 11:07:40 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Comment Period  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130301b47843249cfb@[198.106.196.29]>  
<LYR11893-54545-1999.12.11-00.00.11--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I would sincerely request that the comment period be extended by a few days, at least. I see no reason to rush it, and I am barely past the description of the destination field!!

Jim Wagner  
Oregon Research Electronics

-----  

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| <a href="mailto:wagnerj@proaxis.com">wagnerj@proaxis.com</a> | Tangent, Oregon 97389      |
| KA7EHK@KC7KFE.OR.USA.NOAM                                    | near Corvallis OR, home of |
| <a href="mailto:ka7ehk@yahoo.com">ka7ehk@yahoo.com</a>       | Oregon State University    |

  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 12:10:59 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11095  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 11 Dec 1999 12:10:56 -0600 (CST)  
Message-Id: <LYR11589-54624-1999.12.11-12.25.30--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 11 Dec 1999 11:10:42 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Net names  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130302b4784374b003@[198.106.196.29]>  
<LYR11893-54545-1999.12.11-00.00.11--[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 19, the set of APRS-recognized destination "callsigns" (term used under duress) includes "RTCM" and "TLM". What are they used for?

The earlier recognized set included "SKYWARN". This seemed very useful. Is this now supposed to fall under "SKY\*"??

Many thanks,

Jim Wagner  
Oregon Research Electronics

-----  

|                                                                          |                            |
|--------------------------------------------------------------------------|----------------------------|
| <a href="mailto:wagnerj@proaxis.com">wagnerj@proaxis.com</a>             | Tangent, Oregon 97389      |
| <a href="mailto:KA7EHK@KC7KFE.OR.USA.NOAM">KA7EHK@KC7KFE.OR.USA.NOAM</a> | near Corvallis OR, home of |
| <a href="mailto:ka7ehk@yahoo.com">ka7ehk@yahoo.com</a>                   | Oregon State University    |

  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 12:32:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11739  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 12:32:43 -0600 (CST)  
From: archer@eskimo.com  
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs  
Date: Sat, 11 Dec 1999 10:32:18 -0800 (PST)  
X-Sender: archer@gatekeeper.we7u.net  
Reply-To: "Mills, Curt, WE7U" <BowHunter@mail.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: "Mills, Curt, WE7U" <BowHunter@mail.com>  
Subject: [aprsspec] Re-Inventing APRS Routing  
In-Reply-To: <LYR12893-54509-1999.12.10-18.16.36--we7u@mail.com@lists.tapr.org>  
Message-ID: <LYR11589-54626-1999.12.11-12.47.18--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.LNX.4.04.9912111027270.16487-100000@gatekeeper.we7u.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 10 Dec 1999, Bob Bruninga wrote:

> If some of the talent that wants to re-invent APRS were applied to  
> improving the routing, then I think the results would be very  
> productive indeed. All it takes is someone to write EPROM code for the  
> popular TNC's and boy would it sweep through APRSdom....

Well, if anyone wants a full-blown GCC compiler for the HC11 processor  
that is in the KPC3+, go to my home page below and download the tweaks  
to gcc-2.8.1. There's also a link there to mods for the gcc-2.9.5  
compiler that a guy in France did. The gcc-2.9.5 stuff uses the  
full GNU toolset, including the GAS assembler and the GNU linker.  
All of this stuff is also searchable on "<http://freshmeat.net>".

That ought'a get someone started. Works great on Linux compiling  
things for the HC11.

Curt, WE7U. BowHunter@mail.com  
http://www.eskimo.com/~archer  
Lotto: A tax on people who are bad at math. - unknown  
Windows: Microsoft's tax on computer illiterates. - WE7U.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 14:45:53 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA15221  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 14:45:49 -0600 (CST)  
Message-ID: <LYR11589-54632-1999.12.11-15.00.19--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Sat, 11 Dec 1999 20:44:42 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Net names  
In-Reply-To: <LYR11659-54624-1999.12.11-12.25.30--  
ian@dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <C\$EwsyA6erU4EwLW@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-54624-1999.12.11-12.25.30--ian@dowrmain.demon.co.uk  
@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes  
>On page 19, the set of APRS-recognized destination "callsigns" (term used  
>under duress) includes "RTCM"

RTCM is used for Differential GPS.

> and "TLM".

Telemetry (I think).

>  
>The earlier recognized set included "SKYWARN". This seemed very useful. Is  
>this now supposed to fall under "SKY\*"??

"SKY" and anything beginning with "SKY" falls under "SKY\*".

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 18:29:14 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24429  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 18:29:13 -0600 (CST)  
Date: Sat, 11 Dec 1999 18:28:51 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-54673-1999.12.11-18.43.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11595-54506-1999.12.10-17.20.45--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912120028.SAA41357@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Fri, 10 Dec 1999 18:08:17 -0500  
> From: Jeff King <jeff@aerodata.net>  
> Subject: Re: [aprsspec] Base-91 (was Destination Field - Grid Square)  
> [...]

> And this whole hog-wash about 7 bit stuff is just that..... hog-wash.  
> 8 bit codes can be run on a 1984 TNC1, let alone on any newer dusty  
> TNC2. Its always been an artificial issue and some people just don't  
> want to let it go.  
> [...]

I would be very interested in knowing which TNCs are not 8-bit clean and how many of them were manufactured.

My impression was that only a fairly small number of TNCs fell in this category, but I don't believe anyone has actually identified any by model.

There is a point at which the number of TNCs in this category is so small that they ought not be permitted to inhibit the evolution of amateur packet protocols.

By the way, is the rest of the APRS system 8-bit clean? I was under the impression that some APRS software couldn't handle 8-bit characters.

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 20:23:41 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA27854  
for <lyris.aprsspec@tapr.org>; Sat, 11 Dec 1999 20:23:38 -0600 (CST)  
Message-Id: <LYR11589-54683-1999.12.11-20.38.10--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sat, 11 Dec 1999 21:23:08 -0500  
x-sender: sdimse@m1.sprynet.com  
From: Steve Dimse <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912120223.VAA30622@smtp6.mindspring.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/11/99 7:28 PM Tim Salo (salo@networkcs.com) wrote:

>I would be very interested in knowing which TNCs are not 8-bit clean and  
>how many of them were manufactured.

>

>My impression was that only a fairly small number of TNCs fell in  
>this category, but I don't believe anyone has actually identified any  
>by model.

>

The nomenclature 8-bit is a little misleading, the primary problem is in getting all the values from 0 to 127. ALL TNCs, when used in unproto mode, will not accept all 7 bit codes without gymnastics. The most obvious example is ctrl-c. Sending this to a TNC will put it into command mode, not add a 03 to the data stream. Add the stream switch characters, and you end up with 91 contiguous characters. This is the primary limitation facing the use of TNCs with wider character ranges.

There is an escape character, generally ctl-v, that allows you to enter this and other restricted characters into data strings, but this adds an extra step into the process. Another answer would be to use KISS mode. My suspicion is that either of these two work-arounds would also work for 8 bit numbers, but I have no direct experience.

>There is a point at which the number of TNCs in this category is so  
>small that they ought not be permitted to inhibit the evolution of  
>amateur packet protocols.

>

>By the way, is the rest of the APRS system 8-bit clean? I was under  
>the impression that some APRS software couldn't handle 8-bit characters.

>

The internet portion does not pass non-printing characters, as became clear when the Mic-E was developed. I spent a lot of time trying to track down the origin of the problem, I think it is in the use of the telnet libraries by the clients. If I connect directly to APRSServe and send non-printing characters, and watch the outgoing data in a sniffer program, they are all present. However, javAPRS, which uses the Java socket library, seems to filter them out. There is no published interface to control the filtering. When I was working on the problem I couldn't find a good reference to the internal workings of the socket and stream classes, and in any case the other clients were having the same problem, so after spending far too much time on it I moved on.

I know this is going to raise the hackles of those people screaming kludge. However I am a pragmatist. If I can't solve a problem in a reasonable amount of time, I go around it. For me, the joy comes in making something work...

So please, no whining, or demands I fix it. At any time I'll gladly refund all the money any of you have paid me for the use of the APRServe network. If this limitation of APRServe bugs you, don't waste my time and everyone elses complaining about it, work on your own to define the problem and solve it. As I said, I wasted far too much time on this already, and I have things I find far more interesting to work on now.

Frankly, I'd be thrilled if someone would take over the entire APRServe network, it takes at least half of my free time monitoring and maintaining it now. In 2.5 years, I've gotten fewer than a hundred thank-you's, not much return for my investment of thousands of hours and thousands of dollars.

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 11 23:23:21 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA03625  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 11 Dec 1999 23:23:18 -0600 (CST)  
Message-ID: <LYR11589-54724-1999.12.11-23.37.43--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
From: "Brent Hildebrand" <[bhildebrand@earthlink.net](mailto:bhildebrand@earthlink.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
References: <LYR11585-54683-1999.12.11-20.38.10--  
[bhildebrand@earthlink.net](mailto:bhildebrand@earthlink.net)@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sat, 11 Dec 1999 21:05:17 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <001301bf4460\$ed56c860\$1593b3d1@celeron>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk



I have been experimenting with KISS and 8-bit. It appears to be no problem transmitting and receiving 8-bit. However, not all the digis in my area appear to want to digi it. Some do! It appears you can put anything in the data portion of the packet. The KISS protocol handles the control codes and binary transparently. Using 8-bit binary allows for putting more data in the same space we now use. Using Base91, gives us 6.5 bits precision. Not bad. But we could gain using the extra 1.5 bits. Example: 8 bytes, one can have Lat/Long to a couple of inches. Indeed, Garmin GPS receivers use 8 bytes to describe Lat/Long in the Garmin protocol using 2, 4-byte integers. And DeLorme encodes Lat/Long in 8 bytes also.

APRserve: First, Steve, THANK YOU, THANK YOU, THANK YOU. It is the glue that ties vastly separated areas together. It has made APRS a global community. Second: I have not understood the problem with 7 vs 8 bits with APRserve before. There is a simple way to get around this issue. Take the Mic-E example. Instead of having each client program convert the Mic-E to a "standard" APRS packet, it could just be encoded in something simple like Base64. The packet could be constructed to be transparent to APRserve. something like this:

APRSSA>BASE64:base\_64\_encoded\_data\_goes\_here.

The From callsign shows the originating station. The To callsign says the data in Base64. And the "base\_64\_encoded\_data" is the complete original packet, header/address/data complete. The client would just reverse the Base64, and send the data back through the parser. Only packets that need encoding would be encoded. Mic-E and Binary.

Brent KH2Z

----- Original Message -----

From: Steve Dimse <k4hg@tapr.org>

To: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Sent: Saturday, December 11, 1999 6:23 PM

Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)

> On 12/11/99 7:28 PM Tim Salo (salo@networkcs.com) wrote:

>

> >I would be very interested in knowing which TNCs are not 8-bit clean and  
> >how many of them were manufactured.

> >

> >My impression was that only a fairly small number of TNCs fell in  
> >this category, but I don't believe anyone has actually identified any  
> >by model.

> >

> The nomenclature 8-bit is a little misleading, the primary problem is in  
> getting all the values from 0 to 127. ALL TNCs, when used in unproto  
> mode, will not accept all 7 bit codes without gymnastics. The most  
> obvious example is ctrl-c. Sending this to a TNC will put it into command  
> mode, not add a 03 to the data stream. Add the stream switch characters,  
> and you end up with 91 contiguous characters. This is the primary  
> limitation facing the use of TNCs with wider character ranges.  
>  
> There is an escape character, generally ctl-v, that allows you to enter  
> this and other restricted characters into data strings, but this adds an  
> extra step into the process. Another answer would be to use KISS mode. My  
> suspicion is that either of these two work-arounds would also work for 8  
> bit numbers, but I have no direct experience.  
>  
> >There is a point at which the number of TNCs in this category is so  
> >small that they ought not be permitted to inhibit the evolution of  
> >amateur packet protocols.  
> >  
> >By the way, is the rest of the APRS system 8-bit clean? I was under  
> >the impression that some APRS software couldn't handle 8-bit characters.  
> >  
> The internet portion does not pass non-printing characters, as became  
> clear when the Mic-E was developed. I spent a lot of time trying to track  
> down the origin of the problem, I think it is in the use of the telnet  
> libraries by the clients. If I connect directly to APRServe and send  
> non-printing characters, and watch the outgoing data in a sniffer  
> program, they are all present. However, javAPRS, which uses the Java  
> socket library, seems to filter them out. There is no published interface  
> to control the filtering. When I was working on the problem I couldn't  
> find a good reference to the internal workings of the socket and stream  
> classes, and in any case the other clients were having the same problem,  
> so after spending far too much time on it I moved on.  
>  
> I know this is going to raise the hackles of those people screaming  
> kludge. However I am a pragmatist. If I can't solve a problem in a  
> reasonable amount of time, I go around it. For me, the joy comes in  
> making something work...  
>  
> So please, no whining, or demands I fix it. At any time I'll gladly  
> refund all the money any of you have paid me for the use of the APRServe  
> network. If this limitation of APRServe bugs you, don't waste my time and  
> everyone elses complaining about it, work on your own to define the  
> problem and solve it. As I said, I wasted far too much time on this  
> already, and I have things I find far more interesting to work on now.  
>  
> Frankly, I'd be thrilled if someone would take over the entire APRServe  
> network, it takes at least half of my free time monitoring and  
> maintaining it now. In 2.5 years, I've gotten fewer than a hundred

> thank-you's, not much return for my investment of thousands of hours and  
> thousands of dollars.  
>  
> Steve K4HG  
>  
> ---  
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org  
>  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Dec 12 00:10:21 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA12870  
for <lyris.aprsspec@tappr.org>; Sun, 12 Dec 1999 00:10:20 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54738-1999.12.12-00.24.56--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sun, 12 Dec 1999 01:12:23 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
References: <LYR11601-54683-1999.12.11-20.38.10--jeff#aerodata.net@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <38533CC7.1156B1CC@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

This message discusses issues outside the scope of draft release 1.0

Steve Dimse wrote:

> On 12/11/99 7:28 PM Tim Salo (salo@networkcs.com) wrote:

>  
> >I would be very interested in knowing which TNCs are not 8-bit clean and  
> >how many of them were manufactured.  
> >  
> >My impression was that only a fairly small number of TNCs fell in  
> >this category, but I don't believe anyone has actually identified any  
> >by model.  
> >  
> The nomenclature 8-bit is a little misleading, the primary problem is in  
> getting all the values from 0 to 127. ALL TNCs, when used in unproto  
> mode, will not accept all 7 bit codes without gymnastics.

KISS has been out longer than APRS. KISS is available on all TNC's. It takes 8 bit chars. It will do UI mode. Numerous source code examples exist for KISS, one having just been published in the Summer99 PSR. And KISS is much more standard than the "unproto" mode on the TNC's.

So the claim that "old and dusty" TNC's can't be made to do 8 bit UI frames is false. At worst, a \$5 EPROM would need to be replaced (a 27C64 for the 1984 TNC1).

> >By the way, is the rest of the APRS system 8-bit clean? I was under  
> >the impression that some APRS software couldn't handle 8-bit characters.  
> >  
> The internet portion does not pass non-printing characters, as became  
> clear when the Mic-E was developed.

[... clipped for brevity ...]

So, what you are saying is the tools you had at your disposal for the Macintosh could not be made to pass 8 bit internet data, hence you went with what you had? Fair enough.

> So please, no whining, or demands I fix it.

Now wait one moment here. I don't see anyone asking you to do that or whining about it. What I see is people expressing concern that APRS will be limited to a 7 bit over the air format. The fact that the Mac tools may or may not have been responsible for this (legacy software) really is not the issue. We need to look forward with open minds. The very \*last\* thing we want to do is constrain and cripple our over the air format, were we need the most efficiency possible. This of course means a full 8bit compressed format.

>If this limitation of APRServe bugs you, don't waste my time and

>everyone elses complaining about it, work on your own to define the  
>problem and solve it.

I don't understand this statement. We are on the APRSSPEC list discussing future extensions to APRS. Are you suggesting that everyone go out on their own and develop independent non compliant versions of "APRS"? This would seem counterproductive to the goals of the APRS-WG.

> Frankly, I'd be thrilled if someone would take over the entire APRServe  
> network, it takes at least half of my free time monitoring and  
> maintaining it now. In 2.5 years, I've gotten fewer than a hundred  
> thank-you's, not much return for my investment of thousands of hours and  
> thousands of dollars.

If your not getting anything out of it, by all means, I'd pass it on. But I think you underestimate the amount of gratitude people have for what you have contributed to APRS. While I can't speak of the "thanks-you's" I can quote the numbers from the Spring 1999 PSR. You ran for the first time for the TAPR BOD in 1999 and captured 78.85% of the memberships vote. This was second only to Steve Bible, a long time incumbent BOD member. Assuming you wanted to be on the TAPR board, one could take overwhelming victory as a thank you. I think you should.

In any case, my interest here is that the APRS-WG consider new ideas and not hobble APRS v2.0 with any personal bias or past flawed practices. Lets keep a open mind to others ideas. And lets not assume just because that is how we always have done it is the way we should always do it.

73

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 03:39:57 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA26379  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 03:39:57 -0600 (CST)  
Message-ID: <LYR11589-54751-1999.12.12-03.54.13--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 12 Dec 1999 09:26:43 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11659-54683-1999.12.11-20.38.10--ian@dowrmain.demon.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <9y+vPQATp2U4Ew9D@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR11659-54683-1999.12.11-20.38.10--ian@dowrmain.demon.co.uk@lists.tappr.org>, Steve Dimse <k4hg@tappr.org> writes

>The nomenclature 8-bit is a little misleading, the primary problem is in  
>getting all the values from 0 to 127. ALL TNCs, when used in unproto  
>mode, will not accept all 7 bit codes without gymnastics. The most  
>obvious example is ctrl-c. Sending this to a TNC will put it into command  
>mode, not add a 03 to the data stream. Add the stream switch characters,  
>and you end up with 91 contiguous characters. This is the primary  
>limitation facing the use of TNCs with wider character ranges.  
>  
>There is an escape character, generally ctl-v, that allows you to enter  
>this and other restricted characters into data strings, but this adds an  
>extra step into the process.

Yes, all of that is true. But this is how we used to do things fifteen (15) years ago! Almost since the dawn of AX.25 packet radio (1984) we've also had KISS mode, which removes *\*all\** the kludges you mention. KA9Q TCP/IP has been running since the late 80s over AX.25 without any of these hangups. I just cannot understand why in 1999 so many people *\*still\** have a fixation that 7-bit ASCII terminal mode is the only way to talk to a TNC. (Or even why they even need a TNC any more).

>The internet portion does not pass non-printing characters, as became  
>clear when the Mic-E was developed.

It depends on how you pass them. The Internet has been passing 8-bit mail and news for years. Yes, you may need to convert binary to 7-bit characters, but there are dozens of ways of doing this reliably -- you don't have to invent anything new. Yes, there are limitations in telnet clients, but telnet isn't the only way to talk to the Internet.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 03:41:36 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA26425  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 03:41:35 -0600 (CST)  
Message-ID: <LYR11589-54752-1999.12.12-03.54.30--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 12 Dec 1999 09:31:54 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11659-54738-1999.12.12-00.24.56--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <7iYurVAKu2U4Ewd9@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-54738-1999.12.12-00.24.56--ian#dowrmain.demon.co.uk  
@lists.tapr.org>, Jeff King <jeff@aerodata.net> writes

>

>In any case, my interest here is that the APRS-WG consider new ideas and  
>not hobble APRS v2.0 with any personal bias or past flawed practices. Lets  
>keep a open mind to others ideas. And lets not assume just because that is  
>how we always have done it is the way we should always do it.

>

Agreed Jeff. However, the biggest single obstruction to progress is not really personal bias or past flawed practices. It is the Kenwood TH-D7. Its "firm" ware is effectively "rock-solid-concrete" ware (I know, in theory you \*can\* get the firmware changed if you return it to depot, but how many people will actually do that?). Kenwood's commercial decision not to include flash upgradable firmware is incomprehensible.

The D7 has been a two-edged sword. On the one hand, it has ignited APRS by making it attractive to appliance operators. On the other hand, it has become a lead weight around our ankles.

The bottom line is that the APRS protocol is seriously flawed in several areas, and needs to be superseded. For efficiency and flexibility (and to get away from non-printing ASCII kludges) we probably need to go to KISS/binary, but the TH-D7 can't handle that. So the question is: do we steam ahead with a better protocol and leave the TH-D7 behind, or do we steam ahead with a better protocol on top of the existing protocol, so that TH-D7s can still work? The answer is obvious I think. However, the TH-D7 will be obsolete in a couple of years or so, so we can then progressively phase out today's kludges.

To anyone still thinking of buying a D7, don't waste your money. You'll be stuck with a dinosaur. I don't know about the D700 -- does it support flash upgrade? If not, don't buy that either. The modem vendors learned years ago that the world is changing by the day, and they were forced to support flash upgrades to survive. Kenwood has to do the same. We cannot let a feet-dragging vendor hold back the advancement of APRS.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 05:35:06 1999



Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA28327  
for <lyris.aprsspec@tappr.org>; Sun, 12 Dec 1999 05:35:05 -0600 (CST)  
From: steve.sampson@hushmail.com  
Message-Id: <LYR11589-54753-1999.12.12-05.49.41--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sun, 12 Dec 1999 05:01:40 -0600 (CST)  
Subject: [aprsspec] Re: APRS 2.0 (non-ascii)  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912121130.DAA04166@mail1.hushmail.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

>Agreed Jeff. However, the biggest single obstruction to progress is  
>not really personal bias or past flawed practices. It is the Kenwood  
>TH-D7. Its "firm" ware is effectively "rock-solid-concrete" ware (I  
>know, in theory you \*can\* get the firmware changed if you return it  
>to depot, but how many people will actually do that?). Kenwood's  
>commercial decision not to include flash upgradable firmware is  
>incomprehensible.

They don't want Hams to use the radio for their own software development  
which a flash would allow.

APRS should not be based on what Kenwood implemented. That radio  
is the typical junk that Hams buy when they have more money than sense.  
I must have heard 20 people say it does 9600 perfectly with phase  
modulation, where none have been able to do it before (impossible).

>So the question is: do we steam ahead with a better protocol and leave  
>the TH-D7 behind, or do we steam ahead with a better protocol on top of  
>the existing protocol,

I think a second version of APRS should be specified for higher bit rates.  
Version 1.0 is adequate for what it is designed for. It has such a low  
cycle time, that any encoding scheme will have a minor effect.

The APRS 2.0 spec should be binary and not human readable. The cycle  
time should be on the order of 10 seconds. I picture a 2.4 GHz Spread  
Spectrum device at 300 ft with 3 Watts, and one of those Proxim  
Symphony Bridge devices on the roof of your car, using Charles Brains  
(G4GU0) vocoder board and a laptop... 440 MHz is wide open for the  
new SS rules. The band is pretty much dead in the midwest except for

repeater ID's from those who like to reserve channels, when channels is a dead concept at layer 1. When I click on a storm spotters icon, I want to hear his last voice report. That sort of capability.

In review: APRS V 2.0 should be based on a separate infrastructure that does not include Shift Keying. The TAPR SS project would be a good candidate if it could be shifted down to 440. The 900 MHz target is not usable in most of the midwest at higher power levels.

73,  
Steve, K50KC

IMPORTANT NOTICE: If you are not using HushMail, this message could have been read easily by the many people who have access to your open personal email messages.  
Get your FREE, totally secure email address at <http://www.hushmail.com>.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 05:57:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA28937  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 12 Dec 1999 05:57:43 -0600 (CST)  
Message-ID: <LYR11589-54756-1999.12.12-06.12.20--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Date: Sun, 12 Dec 1999 11:54:54 +0000  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Ian Wade <[ian@dowrmain.demon.co.uk](mailto:ian@dowrmain.demon.co.uk)>  
Reply-To: Ian Wade <[ianwade@netro.co.uk](mailto:ianwade@netro.co.uk)>  
Subject: [aprsspec] Re: APRS 2.0 (non-ascii)  
In-Reply-To: <LYR11659-54753-1999.12.12-05.49.41--  
[ian@dowrmain.demon.co.uk](mailto:ian@dowrmain.demon.co.uk)@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[jsZI4dA004U4Ew+P@dowrmain.demon.co.uk](mailto:jsZI4dA004U4Ew+P@dowrmain.demon.co.uk)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-54753-1999.12.12-05.49.41--[ian@dowrmain.demon.co.uk](mailto:ian@dowrmain.demon.co.uk)>

@lists.tapr.org>, steve.sampson@hushmail.com writes

>

>I think a second version of APRS should be specified for higher bit rates.

Bit rates are a physical layer issue. Nothing to do with the APRS Protocol.

>In review: APRS V 2.0 should be based on a separate infrastructure that  
>does not include Shift Keying.

Shift keying is a physical layer issue. Nothing to do with the APRS Protocol.

Nowhere in the spec is there any mention of 1200 bps or any other physical layer issues. Ditto the AX.25 spec.

By all means talk about SS and similar, but this list is not the place for it.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 06:35:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA29775  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 06:35:02 -0600 (CST)  
From: steve.sampson@hushmail.com  
Message-Id: <LYR11589-54759-1999.12.12-06.49.35--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 12 Dec 1999 06:14:59 -0600 (CST)  
Subject: [aprsspec] Re: APRS 2.0 (non-ascii)  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Cc: aprsspec@lists.tappr.org  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912121230.EAA04760@mail1.hushmail.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

>Bit rates are a physical layer issue. Nothing to do with the APRS  
>Protocol.

The submission was in the context of cycle time. You can't decrease  
the cycle time without increasing the bit rate.

Will APRS always have a cycle time of 10 minutes? Even in future  
protocols? What does "...disseminating live data to everyone on a  
network in real time." really mean? (Page 7).

I will try to refrain from invoking the moderator.

IMPORTANT NOTICE: If you are not using HushMail, this message could have been  
read easily by the many people who have access to your open personal email  
messages.

Get your FREE, totally secure email address at <http://www.hushmail.com>.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Dec 12 09:41:58 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03808  
for <lyris.aprsspec@tappr.org>; Sun, 12 Dec 1999 09:41:55 -0600 (CST)  
Message-Id: <LYR11589-54772-1999.12.12-09.56.25--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sun, 12 Dec 1999 10:39:40 -0500  
x-sender: sdimse@m1.sprynet.com  
From: Steve Dimse <k4hg@tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912121541.KAA32103@smtp6.mindspring.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/12/99 1:12 AM Jeff King (jeff@aerodata.net) wrote:

>> The internet portion does not pass non-printing characters, as became  
>> clear when the Mic-E was developed.

>

>[... clipped for brevity ...]

>

>So, what you are saying is the tools you had at your disposal for the  
>Macintosh

>could not be made to pass 8 bit internet data, hence you went with what  
>you had? Fair enough.

>

No, let me clarify what I wrote. I said the Macintosh portion (the APRServe program itself) is 8 bit clean. The problem appears to be in the clients that connect to it using telnet protocol (RFC 854 provides specific functions for specific non-printing chars, so most implementations filter them rather than pass them) or other ASCII oriented protocol.

On further reflection though, it isn't 8 bit clean...even though it will pass all 256 values, 0x0d has special meaning as the end of line character. In order to pass it, you would need to go to a different means of identifying the end of the packet, such as header-length-data. It would be a complete re-write...

>

>> Frankly, I'd be thrilled if someone would take over the entire APRServe  
>> network, it takes at least half of my free time monitoring and  
>> maintaining it now. In 2.5 years, I've gotten fewer than a hundred  
>> thank-you's, not much return for my investment of thousands of hours and  
>> thousands of dollars.

>

>If your not getting anything out of it, by all means, I'd pass it on. But  
>I think

>you underestimate the amount of gratitude people have for what you  
>have contributed to APRS. While I can't speak of the "thanks-you's" I can  
>quote the numbers from the Spring 1999 PSR. You ran for the first time for  
>the TAPR BOD in 1999 and captured 78.85% of the memberships vote.

>This was second only to Steve Bible, a long time incumbent BOD member.

>Assuming you wanted to be on the TAPR board, one could take overwhelming  
>victory as a thank you. I think you should.

>

No, I don't underestimate that, and perhaps I wasn't clear in what I wrote. I know more than 100 people appreciate my work. My point was that my motivation has nothing to do with the tangible rewards of thank-yous and money. If it did, I'd have been gone long ago. My motivation is in creating something that works and is useful. Unfortunately, it is too successful ;-)...it is useful to so many people that I feel an obligation to keep it working. So instead of using my free time to work on making something new, like XMLserve, work (which is what I want to do), I'm spending it keeping something old going (been there, done that).

My real rewards have come and gone...the first time I saw javAPRS bring up live data in Atlanta, the first time we sent a message between two copies of MacAPRS via the internet, the first time we sent a coast-to-coast radio-to-radio message. That is why I did this. I see no new firsts coming from APRServe itself, which is why I want to work on XMLserve.

>In any case, my interest here is that the APRS-WG consider new ideas and  
>not hobble APRS v2.0 with any personal bias or past flawed practices. Lets  
>keep a open mind to others ideas. And lets not assume just because that is  
>how we always have done it is the way we should always do it.  
>

There are problems. Besides the need to change APRServe to handle the 0x0d character as data, all the IGates would need to be changed as well, and all the clients would need to be updated. As Brent pointed out, some digis don't pass the 8 bit data, that would need to be tracked down and fixed. All this would need to be done more-or-less all at once. Not an insurmountable task, but a daunting one, especially for a loosley-knit volunteer group.

Then there is the issue of the D7's EEPROM. For those that do not know, the D7 EEPROM can only be updated by using a special programmer and soldering wires to the circuit board. If I were designing it I would have done this differently, as I'm sure you would have. However, it exists. Any change to the protocol that affects the D7 means committing every owner to sending these devices to Kenwood for reprogramming. A major inconvenience, and probably expense, since I doubt Kenwood would consider this a warranty repair. As Bob points out, there are more of these already than all registered APRS users. How would you deal with them?

What do you really gain by going to full 8 bits from base-91? A bit and a half, give-or-take, for each byte. The base 91 format encodes the course, speed, altitude, symbol, and lat/lon in 12 characters. So you could save one byte for sure, probably 2. Sure, it would be more elegant, less kludgy, but the savings would be less than 20%, and far less in actual channel capacity when you consider the 30% optimal load and tx time. Is that worth all of this angst?

I think all of us would do things differently if we could throw out everything we have and start from scratch. If APRS were the few dozen people on the list that would be a viable option. With thousands of hams around the world using it, hundreds of digis, and thousands of difficult-to-reprogram radios, I don't feel a new start is a viable option, and I remain committed to making things work as best we can with what we have.

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 09:45:33 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03890  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 12 Dec 1999 09:45:30 -0600 (CST)  
Message-Id: <LYR11589-54773-1999.12.12-10.00.06--  
[lyris.aprsspec@lists.tapr.org](mailto:lyris.aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sun, 12 Dec 1999 10:43:23 -0500  
x-sender: [sdimse@m1.sprynet.com](mailto:sdimse@m1.sprynet.com)  
From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912121545.KAA28896@smtp6.mindspring.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/12/99 4:26 AM Ian Wade ([ian@dowrmain.demon.co.uk](mailto:ian@dowrmain.demon.co.uk)) wrote:

>>The internet portion does not pass non-printing characters, as became  
>>clear when the Mic-E was developed.

>

>It depends on how you pass them. The Internet has been passing 8-bit  
>mail and news for years. Yes, you may need to convert binary to 7-bit  
>characters, but there are dozens of ways of doing this reliably -- you  
>don't have to invent anything new. Yes, there are limitations in telnet  
>clients, but telnet isn't the only way to talk to the Internet.

>

The specific question was whether the rest of APRS was 8bit ready now. My response addressed the Internet portion of APRS. I am well aware of the internet's handling of 8 bit characters. However, the question what worked now...

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 10:31:55 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA05215  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 10:31:49 -0600 (CST)  
Message-ID: <LYR11589-54784-1999.12.12-10.46.26--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11585-54772-1999.12.12-09.56.25--  
bhildebrand#earthlink.net@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sun, 12 Dec 1999 08:31:31 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <018401bf44be\$59d576a0\$1593b3d1@celeron>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> On further reflection though, it isn't 8 bit clean...even though it will  
> pass all 256 values, 0x0d has special meaning as the end of line  
> character. In order to pass it, you would need to go to a different means  
> of identifying the end of the packet, such as header-length-data. It  
> would be a complete re-write...



---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 15:12:41 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA15076  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 15:12:40 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-54829-1999.12.12-15.27.16--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Sun, 12 Dec 1999 16:14:44 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
References: <LYR11601-54772-1999.12.12-09.56.25--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38541044.3877F132@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Steve Dimse wrote:

> On further reflection though, it isn't 8 bit clean...even though it will  
> pass all 256 values, 0x0d has special meaning as the end of line  
> character. In order to pass it, you would need to go to a different means  
> of identifying the end of the packet, such as header-length-data. It  
> would be a complete re-write...

KISS and AX.25 have something like this, for its own special char (0x7F for AX.25 and I think 0xFE for KISS). They have a simple padding mechanism to represent these chars without sending them. Very little overhead and you get a full transparent 8 bit path.

> >In any case, my interest here is that the APRS-WG consider new ideas and  
> >not hobble APRS v2.0 with any personal bias or past flawed practices. Lets  
> >keep a open mind to others ideas. And lets not assume just because that is  
> >how we always have done it is the way we should always do it.  
> >  
> There are problems. Besides the need to change APRServe to handle the  
> 0x0d character as data, all the IGates would need to be changed as well,  
> and all the clients would need to be updated.

How many releases of WINAPRS are there a year? How many releases  
a year of APRS-SA4 are there a year? UI-VIEW? I know there is a release  
of XASTIR (at least a development version) at least every week it seems.  
So until the authors chime in and say they are adverse to change, I  
will assume by the volume of updates they all put out, they are always  
open to new ideas.

I realize nothing will be overnight. The "APRS 2.0" changes  
could be integrated into the software over time, and a change/over date  
could made for all.

And since your now going to APRS-XML-Server, any APRSSERVE  
legacy issues will go away in time.

But first steps first. I was simply asking that first these technical ideas be  
considered, and then we can talk about the political issues of why people  
won't want to change. If the changes make no sense technically, then  
its pointless to discuss political reasons why people won't change.

> As Brent pointed out, some  
> digis don't pass the 8 bit data, that would need to be tracked down and  
> fixed.

As I pointed out to Brent in a private message, I've used KISS since about  
1986, exclusively (except for APRS) and I have never seen this problem.  
KISS is used with NOS, FBB, MSYS, BPQ, W0RLI and many other  
applications. If there was a problem, I think we might have heard of it.  
I'm not at all saying Brent is wrong, I'm just saying a little more  
investigation need be carried out before it becomes a quotable fact/  
conclusion KISS won't work on all digi's. I doubt this is a issue as  
KISS is a worldwide standard (well, actually, it has evolved somewhat  
outside of the US.... 6pack and SMACK being two varients... but  
they are all are compatible over the air)

Now before we get into the Kenwood D7 issue, a question needs to be  
answered. It is:

Is anyone on the APRS-WG under a contractual agreement with Kenwood?

I think in any discussion of Kenwood/APRS, pro or con, needs to be made in the context of full disclosure and knowing who might be beholding to who.

> Then there is the issue of the D7's EEPROM. For those that do not know,  
> the D7 EEPROM can only be updated by using a special programmer and  
> soldering wires to the circuit board.

Yeah, I guess you can't expect hams to know how to solder...but I bet the 15 year old hacker down the street knows how to solder. In either case, if the ham can't solder, many people could do it for him/her for \$\$

On the programmer, I think you underestimate ham/hacker ingenuity. I just finished building a "RIB", which is the Motorola programmer for their FLASH based commercial radios. I'm sure they hold that as close to heart, but schematics are posted all over the internet.

> If I were designing it I would have  
> done this differently, as I'm sure you would have. However, it exists.  
> Any change to the protocol that affects the D7 means committing every  
> owner to sending these devices to Kenwood for reprogramming. A major  
> inconvenience, and probably expense, since I doubt Kenwood would consider  
> this a warranty repair. As Bob points out, there are more of these  
> already than all registered APRS users. How would you deal with them?

Good issues. But I question if the WG should even consider these. First of all, if anyone on the WG is under a contractual agreement with Kenwood, this had poisoned the well already, so to speak. And the more basic issue of should Kenwood drive the future of APRS, just because they made a bad business decision, needs to be addressed. And if so, I think the WG needs to give every manufacturer a vote on the WG. Maybe ICON has a different way than Kenwood. But a better solution is to just completely negate any outside commercial interests.

I also think you underestimate Kenwood. If there was a compelling business reason to update the firmware (like upset owners wanting new features) then they would find a way to do it. I was told by Bob that the Kenwood is a flash based radio, so it should be possible if the will exists. Quite frankly, I think Kenwood would be open to changes as it would insure them of a continued revenue stream from D7 owners needed to update the firmware. Kantronics certainly knows about this.

> What do you really gain by going to full 8 bits from base-91? A bit and a  
> half, give-or-take, for each byte. The base 91 format encodes the course,  
> speed, altitude, symbol, and lat/lon in 12 characters. So you could save  
> one byte for sure, probably 2. Sure, it would be more elegant, less

> kludgy, but the savings would be less than 20%, and far less in actual  
> channel capacity when you consider the 30% optimal load and tx time. Is  
> that worth all of this angst?

Look ahead, look ahead... we are not talking 20% savings but 50% or more savings of total air time. With those extra bits, you can rearrange things to make more sense and pack the bits a little better. And there really is no compelling reason

even to stay with AX.25. AX.25 is a connected mode protocol poorly suited for broadcast applications. How do you do FEC on it? (you can't) So, sure, if your assuming APRS is always married to AX.25, your argument makes some sense. But what I (and I think others are suggesting) is to optimize the existing protocol (which *will* still work under AX.25) and then we also have a protocol that makes sense for other more advanced transport methods. And yes, a \$59 PIC-E can do FEC (with a Ramtron chip).

> I think all of us would do things differently if we could throw out  
> everything we have and start from scratch. If APRS were the few dozen  
> people on the list that would be a viable option. With thousands of hams  
> around the world using it, hundreds of digis, and thousands of  
> difficult-to-reprogram radios, I don't feel a new start is a viable  
> option, and I remain committed to making things work as best we can with  
> what we have.

I've been in packet radio since 1984. I've seen numerous *major* changes, like from AX.25 level 1.0 to AX.25 level 2.0. Changes in the BBS forwarding protocols. Complete rewrites/new protocols in KA9Q NOS. All these changes affected more people then are on APRS. We all survived and thrived. It does need to made clear that no-one is suggesting change for the sake of change. But if something makes some sense, I would ask that the APRS-WG consider it with an open mind.

It is premature for you to dismiss these ideas as you appear to be doing. We are not even at the "APRS 2.0" stage. On one hand it is suggested people present new ideas, but on the other you basically tell us how you will vote on them (no). Why would anyone waste their time writing an extension for APRS 2.0 when they know it will never be incorporated by the APRS-WG?

I don't think anyone here is suggesting we throw out APRS version 1.0 as you may fear. But I do think that APRS needs to be able to evolve in a orderly fashion. And staying with all the legacy decisions that we made when APRS was first created will not allow this evolution.

-Jeff wb8wka

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 15:22:15 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA15316  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 12 Dec 1999 15:22:10 -0600 (CST)  
Message-Id: <LYR11589-54830-1999.12.12-15.36.47--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
Date: Sun, 12 Dec 1999 16:21:19 -0500  
x-sender: [sdimse@m1.sprynet.com](mailto:sdimse@m1.sprynet.com)  
From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912122121.QAA07972@smtp7.atl.mindspring.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/12/99 4:14 PM Jeff King ([jeff@aerodata.net](mailto:jeff@aerodata.net)) wrote:

>And since your now going to APRS-XML-Server, any APRSSERVE  
>legacy issues will go away in time.  
>  
XMLServe does not replace APRServe, they have very different functions.  
See <http://www.aprs.net/xml/dcc99.html> for my DCC paper about it.

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 15:38:20 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA15673  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 12 Dec 1999 15:38:14 -0600 (CST)  
Errors-To: <[jeff@aerodata.net](mailto:jeff@aerodata.net)>

Message-ID: <LYR11589-54831-1999.12.12-15.52.50--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 12 Dec 1999 16:40:23 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
References: <LYR11601-54830-1999.12.12-15.36.47--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <38541646.4544633B@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Steve Dimse wrote:

> On 12/12/99 4:14 PM Jeff King (jeff@aerodata.net) wrote:  
>  
> >And since your now going to APRS-XML-Server, any APRSSERVE  
> >legacy issues will go away in time.  
> >  
> XMLServe does not replace APRServe, they have very different functions.  
> See <http://www.aprs.net/xml/dcc99.html> for my DCC paper about it.

OK, but I got the following on 10/14/99 from another member of the WG:

>I think in Steve Dimse's mind there are two practical reasons why he doesn't  
>want to formally document APRServ now. First, he's on vacation and will be  
>travelling until, I think, nearly the end of the month. It's a pretty-  
>much computer-free vacation; he's only been on email a couple of times since  
>the DCC. Second, I think he views APRServ as a dead-end, and views the new  
>XML approach as its replacement. Therefore, it makes sense in his mind for  
>any documentation effort to focus on that as the going-forward protocol.

So, as you can see, even a member of the WG made the same mistake as I that  
APRServe would be going away after time.

Sorry.

-Jeff

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 16:09:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA16577  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 12 Dec 1999 16:09:04 -0600 (CST)  
Message-Id: <LYR11589-54840-1999.12.12-16.23.35--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Comment Period  
In-reply-to: Your message of "Sat, 11 Dec 1999 11:07:40 MST."  
<LYR11592-54621-1999.12.11-12.22.36--n8ur#[tapr.org@lists.tapr.org](mailto:tapr.org@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Sun, 12 Dec 1999 17:08:41 -0500  
From: John Ackermann <[jra@febo.com](mailto:jra@febo.com)>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912122208.RAA00841@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> I would sincerely request that the comment period be extended by a few  
> days, at least. I see no reason to rush it, and I am barely past the  
> description of the destination field!!

>

> Jim Wagner  
> Oregon Research Electronics

Hi Jim --

I understand your desire for a longer review period, and I've passed  
your request on to the Working Group.

John

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 12 20:00:20 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA23415  
for <lyris.aprsspec@tapr.org>; Sun, 12 Dec 1999 20:00:18 -0600 (CST)  
Date: Sun, 12 Dec 1999 19:59:40 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-54886-1999.12.12-20.14.50--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS 2.0 (non-ascii)  
In-Reply-To: <LYR11595-54753-1999.12.12-05.49.41--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912130159.TAA54067@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> From: steve.sampson@hushmail.com  
> Date: Sun, 12 Dec 1999 05:01:40 -0600 (CST)  
> Subject: [aprsspec] Re: APRS 2.0 (non-ascii)  
>  
> >Agreed Jeff. However, the biggest single obstruction to progress is  
> >not really personal bias or past flawed practices. It is the Kenwood  
> >TH-D7. Its "firm" ware is effectively "rock-solid-concrete" ware (I  
> >know, in theory you \*can\* get the firmware changed if you return it  
> >to depot, but how many people will actually do that?). Kenwood's  
> >commercial decision not to include flash upgradable firmware is  
> >incomprehensible.  
>  
> They don't want Hams to use the radio for their own software development  
> which a flash would allow.  
> [...]

User-loadable firmware does not necessarily imply user-programmability.

The TH-D7 could easily be built to accept firmware only if it was



digitally (cryptographically) signed by Kenwood. I will write up an extended version of my earlier e-mail on this topic and send it to Kenwood, (but not until after this week's program review.) (I probably won't read the spec until then either...)

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 01:20:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09860  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 13 Dec 1999 01:20:28 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-54923-1999.12.13-01.35.04--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 00:20:05 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Data Format Question  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130300b47a4d765357@[206.163.154.74]>  
<LYR11893-54900-1999.12.13-00.00.31--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 83, the reference to "Object Report Format - with Lat/Long position",  
two format symbols are specified. I cannot tell whether the second is "-"  
or "\_". Please clarify!

A bit further down on the same page, "Item Report Format - with Lat/Long  
position" suggests that item name is variable length. This seems a bit  
strange since object names are fixed length padded with spaces. Why not  
more consistency?

Many thanks...

Jim Wagner

Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Mon Dec 13 01:27:33 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09958  
      for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 01:27:32 -0600 (CST)  
Message-Id: <LYR11589-54924-1999.12.13-01.42.04--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 00:26:42 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] More Format Question(s)  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130301b47a4f96d30e@[198.106.196.139]>  
      <LYR11893-54900-1999.12.13-00.00.31--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 83, in the "Weather Report Format - with Lat/Long position", it is NOT obvious to me how one distinguishes weather report from other formats using the same symbols (!=/@).

Many thanks, again,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389

KA7EHK@KC7KFE.OR.USA.NOAM      near Corvallis OR, home of  
ka7ehk@yahoo.com                Oregon State University

---

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 03:03:51 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA12278  
for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 03:03:44 -0600 (CST)  
Date: Mon, 13 Dec 1999 3:3:31  
Subject: [aprsspec] Some questions about APRS digipeater  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: "Marco Savegnago" <m-save@tin.it>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-Id: <LYR11589-54929-1999.12.13-03.18.22--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Precedence: bulk

Hello, I'm relatively new on APRS and I've some questione about the rule of a digipeater installed to serve a wide area (in my case it is installed on a hill).

Actually I have a TNC2 digipeater that perform simple repetition of the packet with the broadcast path set to RELAY WIDE, but I want to understand the rule for call substitution.

Here's the questions:

What is the general rule for call substitution on a WIDE digipeater ?

A digipeater make call substitution on RELAY?  
A digipeater make call substitution on WIDE?  
A digipeater make call substitution on TRACE?  
A digipeater make call substitution on SS?

What path a digipeater use to send its beacon (none or RELAY, WIDE, or WIDE WIDE, or what) and what is its destination? (In my case I'm using a TNC2 with my own code do I need to use APZxxx?)

A digipeater reply to "?APRS?" (or other) query?

And if yes it use the default unproto path or none?

I don't have linux at my home and there is no aprsdigi in my area so I cannot try how aprsdigi perform the repetition of APRS frames.

I've tried to understand form the documentation but I'm not sure, so here there is 3 pratical questions.

Case 1: RELAY, WIDE frame digipeated from 2 WIDE digipeater

A frame like this:

IW3FQG>APRS v RELAY, WIDE

will be repeated from the first digi:

IW3FQG>APRS v RELAY\*, WIDE

and then the second make the call substitution:

IW3FQG>APRS v RELAY, DIGI\*

Is it correct?

Case 2: RELAY, WIDE1-1 frame digipeated from 2 WIDE digipeater

A frame like this:

IW3FQG>APRS v RELAY,WIDE1-1

will be repeated from the first digi:

IW3FQG>APRS v RELAY\*, WIDE1-1

and then from the second digi:

IW3FQG>APRS v RELAY\*, WIDE1-0

then the third make the call substitution:

IW3FQG>APRS v RELAY, WIDE1-0\*

Is it correct?

Case 3: RELAY, TRACE1-1 frame digipeated from 2 WIDE digipeater

A frame like this:

IW3FQG>APRS v RELAY,TRACE1-1

will be repeated from the first digi:

IW3FQG>APRS v RELAY\*, TRACE1-1

and then from the second digi:

IW3FQG>APRS v RELAY, DIGI1\*, TRACE1-0

and then from the third digi:

IW3FQG>APRS v RELAY, DIGI1, DIGI2\*

Is it correct?

I've read the protocol spec draft 1.0g but I never see a practical example like for other arguments in the specs.

Thank you in advance for the reply.

Marco IW3FQG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 06:00:11 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA24788

for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 06:00:10 -0600 (CST)

From: Steve Sampson <ssampson@www.usa-site.net>

Message-Id: <LYR11589-54941-1999.12.13-06.14.49--

lyris.aprsspec@tapr.org@lists.tapr.org>

Subject: [aprsspec] Re: Data Format Question

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Date: Mon, 13 Dec 1999 05:59:49 -0600 (EST)

Cc: aprsspec@lists.tapr.org

In-Reply-To: <LYR13439-54923-1999.12.13-01.35.04--ssampson@usa-site.net@lists.tapr.org> from "Jim Wagner" at Dec 13, 99 00:20:05 am

Content-Type: text

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199912131159.FAA13375@www.usa-site.net>

Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> On page 83, the reference to "Object Report Format - with Lat/Long position",

You mean on page 45? The yellow highlight, gray printing works for me,  
as it shows it to be a dash. Without the highlight it would be a  
problem though.

> two format symbols are specified. I cannot tell whether the second is "-"  
> or "\_". Please clarify!  
>  
> A bit further down on the same page, "Item Report Format - with Lat/Long  
> position" suggests that item name is variable length. This seems a bit  
> strange since object names are fixed length padded with spaces. Why not  
> more consistency?

Things stand out when you document them :-)

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Dec 13 06:01:59 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA24820  
for <lyris.aprsspec@tappr.org>; Mon, 13 Dec 1999 06:01:55 -0600 (CST)  
From: Steve Sampson <ssampson@www.usa-site.net>  
Message-Id: <LYR11589-54942-1999.12.13-06.16.31--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: More Format Question(s)  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Date: Mon, 13 Dec 1999 06:01:32 -0600 (EST)  
Cc: aprsspec@lists.tappr.org  
In-Reply-To: <LYR13439-54924-1999.12.13-01.42.04--ssampson#usa-  
site.net@lists.tappr.org> from "Jim Wagner" at Dec 13, 99 00:26:42 am  
Content-Type: text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912131201.GAA13397@www.usa-site.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> On page 83, in the "Weather Report Format - with Lat/Long position", it is

You mean on page 51 (the page numbers are at the top).

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 09:09:32 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA29907  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 13 Dec 1999 09:09:32 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 09:23:01 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <[LYR11586-54604-1999.12.11-08.56.16--bruninga@nadn.navy.mil@lists.tapr.org](mailto:LYR11586-54604-1999.12.11-08.56.16--bruninga@nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-54958-1999.12.13-09.24.07--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-54958-1999.12.13-09.24.07--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GS0.4.05L.9912130917240.7582-1000000@arctic](mailto:Pine.GS0.4.05L.9912130917240.7582-1000000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sat, 11 Dec 1999, Paul Keinanen wrote:

```
> >Base 91 is a neat trick to ensure that on-air characters are printable
> >ASCII.
>
> Thanks for the explanation, the situation is as bad as I have
> feared:-(.
>
> If this vendor specific format is really going to be endorsed by
> including it into the APRS 1.0 specification, then this clarification
> is really needed in the specification...
```

It is not vendor specific. It was developed by the authors  
back in the summer of 1998 before it was implemented by Kenwood. The

objectives were, short, printable, and resolution to DGPS accuracy...

Bob

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 09:34:53 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA00889  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 13 Dec 1999 09:34:51 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 10:33:26 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Net names  
In-Reply-To: <[LYR11586-54624-1999.12.11-12.25.30--bruninga@nadm.navy.mil@lists.tapr.org](mailto:LYR11586-54624-1999.12.11-12.25.30--bruninga@nadm.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-54971-1999.12.13-09.49.26--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-54971-1999.12.13-09.49.26--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GS0.4.05L.9912131033130.7582-100000@arctic](mailto:Pine.GS0.4.05L.9912131033130.7582-100000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sat, 11 Dec 1999, Jim Wagner wrote:

> On page 19, the set of APRS-recognized destination "callsigns" (term used  
> under duress) includes "RTCM" and "TLM". What are they used for?

DGPS and TELEMETRY

>

> The earlier recognized set included "SKYWARN". This seemed very useful. Is  
> this now supposed to fall under "SKY\*"??

YES



>  
> Many thanks,  
>  
> Jim Wagner  
> Oregon Research Electronics  
> -----  
> wagnerj@proaxis.com                      Tangent, Oregon 97389  
> KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
> ka7ehk@yahoo.com                        Oregon State University  
> -----  
> A computer without Windows is like a cake without mustard. - anonymous  
>  
>  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr:   wb4apr@amsat.org  
US mail address:   115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY:   <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE:   <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio:   <http://www.tappr.org/tappr/html/mic-e.html>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org   Mon Dec 13 10:09:23 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
      by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA01890  
      for <lyris.aprsspec@tappr.org>; Mon, 13 Dec 1999 10:09:21 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 11:08:58 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11586-54752-1999.12.12-03.54.30--  
bruninga@nadm.navy.mil@lists.tappr.org>

Message-ID: <LYR11589-54975-1999.12.13-10.23.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912131103290.7582-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sun, 12 Dec 1999, Ian Wade wrote:

> To anyone still thinking of buying a D7, don't waste your money. You'll  
> be stuck with a dinosaur. I don't know about the D700 -- does it support  
> flash upgrade? If not, don't buy that either. The modem vendors learned  
> years ago that the world is changing by the day, and they were forced to  
> support flash upgrades to survive. Kenwood has to do the same. We cannot  
> let a feet-dragging vendor hold back the advancement of APRS.

Carefull...

With the demise of amateur radio, the death of Amateur Manufacturers by  
the droves, in the few years you are predicting a dinosaur, the only  
thing you will be able to buy will be the latest cell-phone and personal  
digital assistant that everyone else on the planet is buying.. AMateur  
radio willlll not exist at any price... unless you build it yourself.

Deciding what is "best" for the protocol is NOT just a technical issue...

And of course, by then we will all be pirates, since they also sold our  
spectrum too...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 10:33:34 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA02850  
for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 10:33:32 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 11:32:20 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Comment Period  
In-Reply-To: <LYR11586-54840-1999.12.12-16.23.35--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-54986-1999.12.13-10.48.09--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyriss Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912131131040.7582-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Sun, 12 Dec 1999, John Ackermann wrote:

> Hi Jim --  
>  
> I understand your desire for a longer review period, and I've passed  
> your request on to the Working Group.  
>  
> John

I would like the Holidays off! I'm behind, burned out, and will be  
traveling to grandparents for Xmas. I cannot keep this up...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Dec 13 11:23:00 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA04942  
for <lyris.aprsspec@tappr.org>; Mon, 13 Dec 1999 11:22:58 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 12:21:54 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Data Format Question  
In-Reply-To: <LYR11586-54923-1999.12.13-01.35.04--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-54998-1999.12.13-11.37.37--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912131219400.7582-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Mon, 13 Dec 1999, Jim Wagner wrote:

> A bit further down on the same page, "Item Report Format - with Lat/Long  
> position" suggests that item name is variable length. This seems a bit  
> strange since object names are fixed length padded with spaces. Why not  
> more consistency?

It is consistent with our .POS files which define all OVERLAY objects on  
maps. Unfortunately, since these files are "not on-air-protocol", you won't  
see the "consistency"... :-)

These "timeless" objects and "items" don't need the time field and so the  
format is different from OBJECTS transmitted over the air...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Dec 13 11:26:06 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05067  
for <lyris.aprsspec@tappr.org>; Mon, 13 Dec 1999 11:26:05 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 13 Dec 1999 12:25:12 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: More Format Question(s)  
In-Reply-To: <LYR11586-54924-1999.12.13-01.42.04--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-54999-1999.12.13-11.40.41--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912131222070.7582-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Mon, 13 Dec 1999, Jim Wagner wrote:

> On page 83, in the "Weather Report Format - with Lat/Long position", it is  
> NOT obvious to me how one distinguishes weather report from other formats  
> using the same symbols (!=/@).

By the Symbol Type. The above "type" characters distinguish the "types"  
of position reports. But ANY position report or OBJECT that uses the  
WEATHER symbols can contain WX data. Those are the Primary and secondary  
/\_,\\_ and /W, \W symbols...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Dec 13 18:45:26 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25025  
for <lyris.aprsspec@tappr.org>; Mon, 13 Dec 1999 18:45:25 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-55047-1999.12.13-19.00.04--  
lyris.aprsspec@tappr.org@lists.tappr.org>

Date: Mon, 13 Dec 1999 19:47:34 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
References: <LYR11601-54958-1999.12.13-09.24.07--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <385593A6.396765EE@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Bob:

I think Paul had good reason to be confused. Today you stated that the spec was developed outside of the influence of the vendor where as on Dec1 you said the vendor imposed a deadline for the spec on the authors. Are these one in the same or are we talking two different things here?

-Jeff

(also see second attachment below)

Bob Bruninga wrote on Dec 13, 1999:

> On Sat, 11 Dec 1999, Paul Keinanen wrote:  
>  
> > >Base 91 is a neat trick to ensure that on-air characters are printable  
> > >ASCII.  
> >  
> > Thanks for the explanation, the situation is as bad as I have  
> > feared:-(.  
> >  
> > If this vendor specific format is really going to be endorsed by  
> > including it into the APRS 1.0 specification, then this clarification  
> > is really needed in the specification...  
>  
> It is not vendor specific. It was developed by the authors  
> back in the summer of 1998 before it was implemented by Kenwood. The  
> objectives were, short, printable, and resolution to DGPS accuracy...

>  
> Bob

But previous to the above it was stated (implying a less than arms length relationship):

Bob Bruninga wrote on 1 Dec 1999 (On APRSSIG)::

> On Wed, 1 Dec 1999, Jeff Brenton wrote:  
>  
> > Compressing the data was something that was being worked upon, but the  
> > Kenwood APRS HT doesn't handle non-Mic-E compression, so it's  
> > implementation been postponed indefinitely.  
>  
> No. The Kenwood DOES support the compressed algorithm. Getting the  
> SPEC agreed to by August 98 was the deadline in order to make production  
> of the THD7. Its in there, with a suggested implementation date of 1 jan  
> 99. But since not all APRS versions have completed implementing it, we  
> have held off transmitting it for almost a year now... Even though the  
> Kenwood is ready...  
>  
> Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 22:57:09 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA03705  
for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 22:57:08 -0600 (CST)  
Message-Id: <LYR11589-55072-1999.12.13-23.11.35--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 21:56:28 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Weather Report format  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <103130301b47b7c96184c@[198.106.196.139]>  
<LYR11893-54900-1999.12.13-00.00.31--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Mon, 13 Dec 1999, Jim Wagner wrote:

On page 83, in the "Weather Report Format - with Lat/Long position", it is NOT obvious to me how one distinguishes weather report from other formats using the same symbols (!=/@).

Bob Bruninga answered:

By the Symbol Type. The above "type" characters distinguish the "types" of position reports. But ANY position report or OBJECT that uses the WEATHER symbols can contain WX data. Those are the Primary and secondary /\_, \\_ and /W, \W symbols...

Jim Wagner adds the following comment:

With all due respect, I think this is one of the worst possible ways to specify a format. You have to get much of the way through the packet before you find out what it is (you have to read the second symbol character before you can be certain). Weather position SHOULD HAVE ITS OWN DATA TYPE CHARACTER(S).

To make matters worse, I could not find the above condition described Bob Bruninga anywhere in the spec. It may be there somewhere, but, if it is, its very well hidden.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org



From bounce-aprsspec-11589@lists.tapr.org Mon Dec 13 22:57:24 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA03724  
for <lyris.aprsspec@tapr.org>; Mon, 13 Dec 1999 22:57:23 -0600 (CST)  
Message-Id: <LYR11589-55073-1999.12.13-23.12.00--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 21:56:54 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Shelter Data Type Identifier  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b47b7b45c8d5@[198.106.196.139]>  
<LYR11893-54900-1999.12.13-00.00.31--wagnerj@proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 22, "+" is identified as "Shelter Data with time". Yet, this data type is absent from any subsequent data type descriptions. Either, the data type description should be added or the identifier should be removed from the table.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 00:00:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA08421  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 00:00:39 -0600 (CST)  
Message-Id: <LYR11589-55086-1999.12.14-00.15.18--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 23:00:23 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Data Type symbol info Please  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130304b47b8c1bbf66@[198.106.199.206]>  
<LYR11893-54900-1999.12.13-00.00.31--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings -

While perusing the current draft of the spec, I came across the following dilemma:

I cannot find out what the symbol is for "current Mic-E data", the one in the right-hand column of the table on Page 16 (identified as page 22 of 99 by Acrobat) just above "a-z".

When I select this character and paste it into the Find dialog, it also finds the same character on Page 39 (Acrobat's 45 of 99). But, IT DOES NOT FIND SAID CHARACTER IN THE ASCII TABLE.

What character is this?????

Many thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 00:21:02 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA13825  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 14 Dec 1999 00:20:59 -0600 (CST)  
Message-Id: <LYR11589-55088-1999.12.14-00.35.36--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 13 Dec 1999 23:20:33 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] XJ1 format request  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130305b47b91a40d55@[198.106.199.206]>  
<LYR11893-55079-1999.12.14-00.00.16--[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello -

On page 17 (acrobat's 23 of 99), it says:

Note: There is one exception to the requirement for the Data Type Identifier to be the first character in the Information field - this is the Position without Timestamp (indicated by the ! Data Type Identifier). The ! character may occur anywhere up to and including the 40th character position in the Information field. This variability is required to support X1J TNC digipeaters which have a string of unmodifiable text at the beginning of the field.

Could someone please supply an example of the text resulting from this situation?

Many thanks,

Jim Wagner  
Oregon Research Electronics

-----

wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                      Oregon State University

---

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 04:40:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA28724  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 04:40:28 -0600 (CST)  
From: Steve Sampson <ssampson@www.usa-site.net>  
Message-Id: <LYR11589-55101-1999.12.14-04.55.07--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Data Type symbol info Please  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Date: Tue, 14 Dec 1999 04:40:08 -0600 (EST)  
Cc: aprsspec@lists.tapr.org  
In-Reply-To: <LYR13439-55086-1999.12.14-00.15.18--ssampson#usa-  
site.net@lists.tapr.org> from "Jim Wagner" at Dec 13, 99 11:00:23 pm  
Content-Type: text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912141040.EAA16077@www.usa-site.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

It's called a grave accent. It's a very common symbol in Unix (usually  
found just above the tab key). ASCII code 96.

> I cannot find out what the symbol is for "current Mic-E data", the one in  
> the right-hand column of the table on Page 16 (identified as page 22 of 99  
> by Acrobat) just above "a-z".

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Dec 14 04:53:31 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id EAA29064  
for <lyris.aprsspec@tappr.org>; Tue, 14 Dec 1999 04:53:28 -0600 (CST)  
From: Steve Sampson <ssampson@www.usa-site.net>  
Message-Id: <LYR11589-55102-1999.12.14-05.08.10--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: Shelter Data Type Identifier  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Date: Tue, 14 Dec 1999 04:53:15 -0600 (EST)  
Cc: aprsspec@lists.tappr.org  
In-Reply-To: <LYR13439-55073-1999.12.13-23.12.00--ssampson#usa-  
site.net@lists.tappr.org> from "Jim Wagner" at Dec 13, 99 09:56:54 pm  
Content-Type: text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912141053.EAA16101@www.usa-site.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

The page numbers are located at the top of each page. You probably  
mean page 16. The acrobat page number is worthless.

> On page 22, "+" is identified as "Shelter Data with time". Yet, this data  
> type is absent from any subsequent data type descriptions. Either, the data  
> type description should be added or the identifier should be removed from  
> the table.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Dec 14 05:21:22 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA29686  
for <lyris.aprsspec@tappr.org>; Tue, 14 Dec 1999 05:21:21 -0600 (CST)  
Message-ID: <LYR11589-55103-1999.12.14-05.35.59--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Tue, 14 Dec 1999 11:19:58 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Commercial considerations?  
MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <iPWL9BAefiV4Ew0E@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

(I hope this doesn't repeat comments that have already been made, but I only found the time to start reading the spec yesterday.)

Some aspects of the spec appear to me to be based more on commercial considerations than on what is really desirable in a protocol specification. Surely a basic goal of a spec of this type should be to make it platform and product independent?

First, there is a list of destination addresses that serve little purpose other than software/hardware product advertising:-

>The following software version types are reserved (xx and xxx indicate  
>a version number):  
>APCxxx APRS/CE, Windows CE  
>APExxx PIC-Encoder  
>APIxxx Icom radios (future)  
>APICxx ICQ messaging  
>APKxxx Kenwood radios  
>APMxxx MacAPRS  
>APPxxx pocketAPRS  
>APRxxx APRSdos  
>APRS older versions of APRSdos  
>APRSM older versions of MacAPRS  
>APRSW older versions of WinAPRS  
>APSxxx APRS+SA  
>APWxxx WinAPRS  
>APXxxx X-APRS  
>APYxxx Yaesu radios (future)  
>APZxxx Experimental

(That lot is roughly the equivalent of the authors of the AX25 spec having included a facility to specify in each frame the type of TNC being used!)

Second, there are the frequent references to Kenwood radios, even to the extent of including their type numbers. Is the working group going to update the spec every time Kenwood produce a new radio?

I would make two suggestions:-

1. Either -

(a) Only destination addresses that contain \*protocol\* information should be allowed. Or

(b) Any destination address should be acceptable. I.e. no APRS software should default to discarding frames because the destination address is not one of those listed in the spec. This makes little difference, other than removing a filter that is logically unnecessary, and which introduces a bias against new software/hardware products. Destination addresses that contain protocol information will be treated exactly as they are now, but, for instance, ABC326 will be just as acceptable (and, from the point of view of the protocol information it contains, just as useless) as APM326.

2. The members of the working group need to have a good, hard think about the desirability of including in the spec references to specific items of equipment from one manufacturer. One thing for sure is that the rest of us are always going to be wondering exactly why they did it. The TH-D7 is a great radio, but that isn't a valid reason for including references to it in a protocol specification.

--

Roger Barker, G4IDE    roger@peaksys.co.uk  
Boston, UK            http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 06:11:27 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA00683  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 06:11:24 -0600 (CST)  
From: Steve Sampson <ssampson@www.usa-site.net>  
Message-Id: <LYR11589-55104-1999.12.14-06.26.00--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Subject: [aprsspec] APRS-99  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Date: Tue, 14 Dec 1999 06:11:06 -0600 (EST)  
Content-Type: text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <199912141211.GAA16315@www.usa-site.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I noticed the reference to a Kenwood TM-D700 radio. I never heard of it, so I reached for my AES catalog, and found an Ad for it on page 72 (Winter 1999-2000).

It advertises that it has advanced APRS-99 features.

- 1) What is APRS-99?
- 2) Does that mean it can decode TAPR equipment?
- 3) Should the spec be changed to APRS-99 instead of 1.0?

73,  
Steve, K50KC

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Dec 14 07:03:31 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01715  
for <lyris.aprsspec@tappr.org>; Tue, 14 Dec 1999 07:03:26 -0600 (CST)  
Message-Id: <LYR11589-55107-1999.12.14-07.18.06--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Commercial considerations?  
In-reply-to: Your message of "Tue, 14 Dec 1999 11:19:58 GMT."  
<LYR11592-55103-1999.12.14-05.35.59--n8ur#tappr.org@lists.tappr.org>  
Date: Tue, 14 Dec 1999 08:03:05 -0500  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912141303.IAA14352@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Hi Roger --

Thanks for your comments. I don't want to address substantive questions about the protocol (I'll leave that to those more knowledgeable), but your



message gives me a opportunity to reiterate something for those who are just joining the discussion:

The goal of version 1.0 of the APRS Protocol Specification is to document the APRS on-air protocols as they are currently used. That means that we're documenting some things that are, shall we say, suboptimal. There are things that could -- and perhaps should -- be changed, but the WG made a conscious decision not to address any changes to the protocol in the version 1.0 document, which is intended to provide a baseline of where we are today. Those discussions will happen after version 1.0 is locked down; we'll have an ongoing process in place to handle requests for protocol changes submitted by the public.

While I've got the floor, I'll also note that folks have pointed out that version 1.0 does, in fact, make a couple of changes to the existing protocols -- mainly, by not including a few deprecated constructs. Based on the feedback we've received, we'll review those decisions and try to come up with a way to document those aspects without perpetuating them.

Thanks,

John N8UR (jra@febo.com)  
Administrative Chair, APRS Working Group

----

In message <LYR11592-55103-1999.12.14-05.35.59--n8ur#tapr.org@lists.tapr.org>, Roger Barker writes:

>(I hope this doesn't repeat comments that have already been made, but I  
>only found the time to start reading the spec yesterday.)

>

>Some aspects of the spec appear to me to be based more on commercial  
>considerations than on what is really desirable in a protocol  
>specification. Surely a basic goal of a spec of this type should be to  
>make it platform and product independent?

>

>First, there is a list of destination addresses that serve little  
>purpose other than software/hardware product advertising:-

>

>>The following software version types are reserved (xx and xxx indicate  
>>a version number):

>>APCxxx APRS/CE, Windows CE

>>APExxx PIC-Encoder

>>APIxxx Icom radios (future)

>>APICxx ICQ messaging

>>APKxxx Kenwood radios

>>APMxxx MacAPRS

>>APPxxx pocketAPRS

>>APRxxx APRSdos

>>APRS older versions of APRSdos

>>APRSM older versions of MacAPRS  
>>APRSW older versions of WinAPRS  
>>APSxxx APRS+SA  
>>APWxxx WinAPRS  
>>APXxxx X-APRS  
>>APYxxx Yaesu radios (future)  
>>APZxxx Experimental  
>  
>(That lot is roughly the equivalent of the authors of the AX25 spec  
>having included a facility to specify in each frame the type of TNC  
>being used!)

>  
>Second, there are the frequent references to Kenwood radios, even to the  
>extent of including their type numbers. Is the working group going to  
>update the spec every time Kenwood produce a new radio?

>  
>I would make two suggestions:-

>  
>1. Either -

>  
>(a) Only destination addresses that contain \*protocol\* information  
>should be allowed. Or

>  
>(b) Any destination address should be acceptable. I.e. no APRS software  
>should default to discarding frames because the destination address is  
>not one of those listed in the spec. This makes little difference, other  
>than removing a filter that is logically unnecessary, and which  
>introduces a bias against new software/hardware products. Destination  
>addresses that contain protocol information will be treated exactly as  
>they are now, but, for instance, ABC326 will be just as acceptable (and,  
>from the point of view of the protocol information it contains, just as  
>useless) as APM326.

>  
>2. The members of the working group need to have a good, hard think  
>about the desirability of including in the spec references to specific  
>items of equipment from one manufacturer. One thing for sure is that the  
>rest of us are always going to be wondering exactly why they did it. The  
>TH-D7 is a great radio, but that isn't a valid reason for including  
>references to it in a protocol specification.

>  
>--  
>Roger Barker, G4IDE   roger@peaksys.co.uk  
>Boston, UK           http://www.packetradio.org.uk  
>  
>---

>You are currently subscribed to aprsspec as: n8ur@tapr.org  
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org) Tue Dec 14 08:13:03 1999  
Received: from [lists.tapr.org](mailto:lists.tapr.org) ([lists.tapr.org](mailto:lists.tapr.org) [204.17.217.24])  
by [tapr.org](mailto:tapr.org) (8.9.3/8.9.3/1.13) with SMTP id IAA03533  
for [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org); Tue, 14 Dec 1999 08:13:03 -0600 (CST)  
Message-ID: <LYR11589-55111-1999.12.14-08.27.35--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Date: Tue, 14 Dec 1999 14:11:42 +0000  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
Subject: [aprsspec] Re: Commercial considerations?  
References: <LYR11592-55103-1999.12.14-05.35.59--[n8ur@tapr.org](mailto:n8ur@tapr.org)@lists.tapr.org>  
<LYR13460-55107-1999.12.14-07.18.06--[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)@lists.tapr.org>  
In-Reply-To: <LYR13460-55107-1999.12.14-07.18.06--  
[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <9Im88BAeAlV4Ewmy@peaksys.co.uk>  
Sender: [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org)  
Precedence: bulk

In article <LYR13460-55107-1999.12.14-07.18.06--[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)@lists.tapr.org>, John Ackermann <[jra@febo.com](mailto:jra@febo.com)> writes

>Hi Roger --

>

>Thanks for your comments. I don't want to address substantive questions  
>about the protocol (I'll leave that to those more knowledgeable), but your  
>message gives me a opportunity to reiterate something for those who are  
>just joining the discussion:

>

>The goal of version 1.0 of the APRS Protocol Specification is to document  
>the APRS on-air protocols as they are currently used. That means that  
>we're documenting some things that are, shall we say, suboptimal. There  
>are things that could -- and perhaps should -- be changed, but the WG made  
>a conscious decision not to address any changes to the protocol in the  
>version 1.0 document, which is intended to provide a baseline of where we  
>are today. Those discussions will happen after version 1.0 is locked down;  
>we'll have an ongoing process in place to handle requests for protocol  
>changes submitted by the public.

I did, of course, understand that. Therefore I limited my comments to aspects of the document that do not have any protocol content. As I pointed out, the destination addresses that are used essentially for product advertising contain no protocol information, nor do the references to specific Kenwood radios.

Since V1.0 will obviously form the basis for future changes, my question is quite simple - Given that these aspects of APRS operation have no protocol content, should they be in a \*protocol\* specification? If the answer is yes, then obviously someone will be able to explain exactly what protocol information they contain that I am missing.

To repeat what I said in my first message - Surely a basic goal of a spec of this type should be to make it platform and product independent?

--

Roger Barker, G4IDE   roger@peaksys.co.uk  
Boston, UK           http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Tue Dec 14 09:25:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05375  
      for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 09:25:18 -0600 (CST)  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-ID: <LYR11589-55116-1999.12.14-09.40.01--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: William Beals <wmbeals@compuserve.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: "'Russ Chadwick (Home)'" <kb0tvj@bouldernews.infi.net>  
Subject: [aprsspec] OMISSION or UNCLEAR: Weather APRS Software Type  
Date: Tue, 14 Dec 1999 08:24:21 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01BF460C.F3A9B300@PAVILION>  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA05375

Folks:

[I joined 24 hours ago and have been monitoring for a bit, so I don't know if this issue has been addressed already]

I'm working with Steve Bible and a good crew on a stand-alone weather station we hope to have out (very) late this year or early next year. As such I'm paying close attention to the weather chapter and am confused about how to identify my station.

The issue: I send out the weather data per the format starting on page 50, but don't know how to identify my weather station type (APRS Software Type Field) as the only options are things like DOS, Windows, etc. I'm "none of the above" as I'm running from a dedicated microcontroller. Can another option get added for "other" or (ideally from my point of view) an option for "embedded". Even with the latter, an "other" would probably still be a good idea.

I currently send out an identifier of "e1w" for "embedded, 1-wire", but can change that very quickly if there is a better format. When Denver had an igate and my data got out, this identifier worked for all the APRS programs except WinAPRS which interpreted this as one inch of rain. Since the goal is backwards compatibility, I expect to have to change my identifier, I'm not sure to what though.

will

PS: I've worked on specs before, it is a grueling task. My hats off to you!

-----  
This message sent using 100% recycled Electrons  
(Minimum 30% post-consumer content)  
-----

Will Beals  
wmbeals@compuserve.com  
15014 East Idaho Place  
Aurora, CO 80012-4740  
303-755-0293

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 09:39:56 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05687

for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 09:39:55 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 14 Dec 1999 10:38:41 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic.usna.edu  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Data Type symbol info Please  
In-Reply-To: <LYR11586-55086-1999.12.14-00.15.18--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55118-1999.12.14-09.54.35--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912141037400.23050-1000000@arctic.usna.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Mon, 13 Dec 1999, Jim Wagner wrote:

> I cannot find out what the symbol is for "current Mic-E data", the one in  
> the right-hand column of the table on Page 16 (identified as page 22 of 99  
> by Acrobat) just above "a-z".  
>  
> When I select this character and paste it into the Find dialog, it also  
> finds the same character on Page 39 (Acrobat's 45 of 99). But, IT DOES NOT  
> FIND SAID CHARACTER IN THE ASCII TABLE.

One is the Apostrophe and the other is the grave accent. "'" and "`".  
Id have to look it up to see which one is for Current data and which one  
is for OLD data...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 09:59:50 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA06169  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 09:59:50 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 14 Dec 1999 10:54:24 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic.usna.edu  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprsspec]Base-91 (was Destination Field - Grid Square)  
In-Reply-To: <LYR11586-55047-1999.12.13-19.00.04--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55122-1999.12.14-10.14.15--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912140934210.23050-100000@arctic.usna.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Mon, 13 Dec 1999, Jeff King wrote:

> I think Paul had good reason to be confused. Today you stated  
> that the spec was developed outside of the influence of the  
> vendor where as on Dec1 you said the vendor imposed a  
> deadline for the spec on the authors. Are these one in the  
> same or are we talking two different things here?

The vendor imposed no such deadline. But we certainly knew when was the last opportunity to influence what they would implement and what they wouldnt implement as they went to production.

It would have been stupid not to be aware of such relevant things going on around us...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 10:02:25 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA06239  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 10:02:23 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 14 Dec 1999 11:00:15 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic.usna.edu  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Commercial considerations?  
In-Reply-To: <LYR11586-55103-1999.12.14-05.35.59--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55124-1999.12.14-10.16.20--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912141056460.23050-100000@arctic.usna.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Tue, 14 Dec 1999, Roger Barker wrote:

> First, there is a list of destination addresses that serve little  
> purpose other than software/hardware product advertising:-

The identification of the hardware/software type is for troubleshooting..  
It is exasperating to troubleshoot packets from unidentified stations and  
trackers that are not listening and you have no way to get in contact with  
the sender...

> I would make two suggestions:-  
>

> (b) Any destination address should be acceptable. I.e. no APRS software  
> should default to discarding frames because the destination address is  
> not one of those listed in the spec. This makes little difference, other  
> than removing a filter that is logically unnecessary, and which  
> introduces a bias against new software/hardware products.

Anything starting with an "AP" is valid. The filter for other non listed  
destinations is essential for the ALT-NET concept to work. Please look  
carefully at that section. We must have a way of using the APRS



Infrastructure for sub-nets without cluttering every single map on frequency...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 10:54:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07973  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 10:54:35 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 14 Dec 1999 11:47:13 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic.usna.edu  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,  
"Russ Chadwick (Home)" <kb0tvj@bouldernews.infi.net>  
Subject: [aprsspec] Re: OMISSION or UNCLEAR: Weather APRS Software Type  
In-Reply-To: <LYR11586-55116-1999.12.14-09.40.01--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55128-1999.12.14-11.09.17--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912141144400.23050-1000000@arctic.usna.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Tue, 14 Dec 1999, William Beals wrote:

> I'm working with Steve Bible and a good crew on a stand-alone weather station we hope to have out (very) late this year or early next year. As such I'm paying close attention to the weather chapter and am confused about how to identify my station.

If its PIC based, then choose one from the APExxx bunch...>

>

> I currently send out an identifier of "e1w" for "embedded, 1-wire"...

That seems to fit nicely with the APExxx bunch.

That list was not meant to be exclusive, but just to give an idea of which ones are already in use...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 17:02:18 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19896  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 17:02:18 -0600 (CST)  
Message-ID: <LYR11589-55197-1999.12.14-17.16.55--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
From: billc@zebra.net (Bill Cleveland)  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR13396-55124-1999.12.14-10.16.20--  
billc@zebra.net@lists.tapr.org><LYR11588-55192-1999.12.14-15.55.09--  
ksproul@vger.rutgers.edu@lists.tapr.org> <v0420550bb47c7591c264@[165.230.139.231]>  
Subject: [aprsspec] Re: Commercial considerations?  
Date: Tue, 14 Dec 1999 16:59:17 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <014001bf4697\$c217aa00\$02a0a8c0@Bill>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

By definition the PALM version would not be fully 1.0 compliant if it could not handle to number of characters in a message specified in the protocol definition.

Remember this protocol is suppose to be a specification from which all APRS clients are measured. We can't have moving goal posts and we can't allow clients to fudge with the specs. The end user should not have to worry about wether or not person on the other end can read more than 40 characters. It would be best to have the PALM version handle the SAME size messages as everybody else.

It would be easier for the PALM programmer to correct the short comings of his program, then to have the rest of the community be burdened by it. The PALM programmer should be forced to comply with the protocol, rather than the other way around.

73,  
Bill

----- Original Message -----

From: Keith Sproul <ksproul@vger.rutgers.edu>  
To: Bill Cleveland <billc@zebra.net>  
Sent: Tuesday, December 14, 1999 2:32 PM  
Subject: [aprsspec] Re: Commercial considerations?

> All fine and good, BUT, what if a PALM version of APRS that can only  
> display 40char messages is fully version 1.0 compliant, and a Mac or  
> Windows version that is fully version 1.0 compliant, want to talk.  
> If the person that is sending TO the Palm version 1.0 is smart  
> enough, they might make it easier for the PALM version to read the  
> messages, etc..  
>  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 18:32:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA22087  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 18:32:34 -0600 (CST)  
From: "Michael J. Allison / KN6ZT" <mallison@livingston.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] UNCLEAR: DF element  
Date: Tue, 14 Dec 1999 16:37:14 -0800

Message-ID: <LYR11589-55205-1999.12.14-18.47.19--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
Importance: Normal  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <009d01bf4694\$8846d1f0\$a820c695@livingston.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Before I launch into my comment I would like to congratulate the APRS WG for the overall excellence of this draft (1.0.1g) of the APRS specification. I would say it is very "professional", but I've dealt with specifications written by professional engineers that are not as complete or coherently put together. The quality and effort involved in this document is apparent. Thank you very much!

[UNCLEAR]

Page 27, section entitled "Bearings and Number/Range/Quality"

I am reading this section with interest, since I am one of the developers of the MicroFinder doppler (mentioned in page 16, APRS Data Type Identifier).

The unclear part for me is where the numbers N, R, and Q are derived from.

"N" seems to be some sort of pseudo statistical value, but doesn't indicate what the source of the information is. Does this come from the sending APRS program or the external device (AKA doppler). If the value is to come from the APRS program, the description included in this text is probably not clear enough to produce a consistently reliable implementation from different implementers. If this value is supposed to come from the external device, it sounds like it might be too device dependent (I know of several doppler based systems that do not do anything like this).

The range looks like it is generated by a compliant APRS application... correct?

The output of our doppler unit provides a single number which we call "quality". Is this supposed to be the "quality" value supplied by the doppler (normalized to 0-9) or from some other source?

m/j/a

MicroFinder bearing format information page:  
[http://www.gst.net/~ahha/TN/tech\\_note\\_8.html](http://www.gst.net/~ahha/TN/tech_note_8.html)

Michael J. Allison  
KN6ZT

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 20:18:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA24868  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 14 Dec 1999 20:18:53 -0600 (CST)  
Errors-To: <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Message-ID: <LYR11589-55209-1999.12.14-20.33.23--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Tue, 14 Dec 1999 21:20:45 -0500  
From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
CC: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Commercial considerations?  
References: <LYR11601-55103-1999.12.14-05.35.59--[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <3856FAFD.C3C972ED@aerodata.net>

Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Roger Barker wrote:

> Some aspects of the spec appear to me to be based more on commercial  
> considerations than on what is really desirable in a protocol  
> specification. Surely a basic goal of a spec of this type should be to  
> make it platform and product independent?

Roger:

I can't answer your question, but I asked a similar one myself that never  
got a coherent response. The lack of a response or even the act of  
obfuscation itself can be an answer.

-Jeff

Jeff King wrote on 12/12/99:

>Now before we get into the Kenwood D7 issue, a question needs to be  
>answered. It is:  
>  
>Is anyone on the APRS-WG under a contractual agreement with Kenwood?

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 20:19:03 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA24891  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 20:19:02 -0600 (CST)  
Message-ID: <LYR11589-55192-1999.12.14-15.55.09--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: billc@zebra.net (Bill Cleveland)  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR13396-55124-1999.12.14-10.16.20--billc#zebra.net@lists.tapr.org>  
Subject: [aprsspec] Re: Commercial considerations?  
Date: Tue, 14 Dec 1999 15:38:37 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;

charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <011501bf468c\$58de6980\$02a0a8c0@Bill>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

----- Original Message -----

From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Sent: Tuesday, December 14, 1999 8:00 AM  
Subject: [aprsspec] Re: Commercial considerations?

> On Tue, 14 Dec 1999, Roger Barker wrote:  
>  
> > First, there is a list of destination addresses that serve little  
> > purpose other than software/hardware product advertising:-  
>  
> The identification of the hardware/software type is for troubleshooting..  
> It is exasperating to troubleshoot packets from unidentified stations and  
> trackers that are not listening and you have no way to get in contact with  
> the sender...

If APRS is truly meant to be a hardware independent protocol, then we should stop identifying different variations of the protocol by its originating piece of hardware or software. I believe we should mainly identify the protocol by its version number. Instead of using APM326 to stand for "MacAPRS 3.2.6", we should use APV100 for "APRS Version 1.0.0". There should be no need to concern ourselves with what a transmitting station is running, only with the version of the APRS Protocol being transmitted.

If we used APVxxx to signify APRS protocol Version x.x.x :

It could be assumed that a APRS client running "APV101" should be able to decode "APV100". It could also be assumed that a client running "APV100", may not fully decode all data coming from a station sending "APV101". No meaningful assumptions can be made when a MacAPRS 3.2.6 ("APM326") is sending data to a WinAPRS 2.3.3 ("APW233").

In addition, I believe we should continue to use "APZxxx" to signify an experimental addition to the protocol. For example, "APZ100" could signify that the core protocol is at least compatable with "APV100" with some experimental extensions thrown in.

So if my vote counted for anything, I say ditch the other "APXxxx" and use:

"APVxxx" for APRS compliant version x.x.x

"APZxxx" for APRS beta version at least compliant to APRS x.x.x

And we should stop using the protocol specification as a registry of vendors who has licensed the term 'APRS'.

Just my two cents worth.

BTW, My appologies if I misunderstood something.

73,  
Bill

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 14 22:06:43 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA28404  
for <lyris.aprsspec@tapr.org>; Tue, 14 Dec 1999 22:06:41 -0600 (CST)  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-ID: <LYR11589-55222-1999.12.14-22.21.23--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: William Beals <wmbeals@compuserve.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Weather APRS Software type  
Date: Tue, 14 Dec 1999 21:04:28 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset="iso-8859-1"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01BF4677.4B19D560@PAVILLION>  
Precedence: bulk



Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA28404

Bob:

Alas I am not using a PIC, in my case it is a Motorola 6808. I was aware of using the destination field for software versions too, and that did seem like a duplication. I was pretty much ignoring that field and concentrating on the trailer for my identifier as that seemed a lot more flexible. I think your answer complicates my original question though. You are correct that I should fix the Target field to something, I guess I'll pick an unused one such as APDAXx (DA for Dallas), so I don't chew up all the D's. But, don't I still need to have something for the trailer to uniquely identify my particular weather station?

I have been using separate packets for position and weather. My theory was that by sending weather every 5 minutes, but position every 43 minutes, I was saving precious bandwidth. There are obvious annoyances, but they seemed worthwhile to save bandwidth. My station identifier is really short, just my callsign and uncompressed location, none of that other fluff like email addresses and stuff. If I can justify putting in the position, that would be nice.

will

-----  
This message sent using 100% recycled Electrons  
(Minimum 30% post-consumer content)  
-----

Will Beals  
wmbeals@compuserve.com  
15014 East Idaho Place  
Aurora, CO 80012-4740  
303-755-0293

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 07:52:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA28513  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 15 Dec 1999 07:52:27 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 15 Dec 1999 08:48:16 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: UNCLEAR: DF element  
In-Reply-To: <LYR11586-55205-1999.12.14-18.47.19--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55275-1999.12.15-08.07.11--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912150841100.21903-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Tue, 14 Dec 1999, Michael J. Allison / KN6ZT wrote:

> The unclear part for me is where the numbers N, R, and Q are  
> derived from.  
>  
> "N" seems to be some sort of pseudo statistical value, but doesn't  
> indicate what the source of the information is. Does this come  
> from the sending APRS program or the external device  
> (AKA doppler). If the value is to come from the APRS program,  
> the description included in this text is probably not clear  
> enough to produce a consistently reliable implementation  
> from different implementers. If this value is supposed to come  
> from the external device, it sounds like it might be too  
> device dependent (I know of several doppler based systems that  
> do not do anything like this).

The N7LUE Doppler system preceeded APRS, so we built it to match.  
Then we added Doppler Systems Inc, then we added DFJr parsing.  
Yes, N was somewhat driven by the N7LUE device. If it doesnt apply to  
your doppler unit, then dont use it. We do need to define the Null  
value...

> The range looks like it is generated by a compliant APRS  
> application... correct?

None currently generate it. That field is for a best guess of range "if  
available". APRSdos generates it for manual reports based on the current  
map scale. The assumption is that if a guy is using a 32 mile map scale  
to view his DF event, then he probably expects all DF bearings to be  
within 32 miles. Before we introduced that value, DF bearings could go

around the world. But, if I am doing HF DFing and am looking at the 1000 mile scale, then, the DF bearing line should be on the order of 1000 miles long...

This brings up the very important APRS concept of "MAP RANGE". I will address this in a different Epistel...

> The output of our doppler unit provides  
a single > number which we call "quality". Is this supposed to be the  
> "quality" value supplied by the doppler (normalized to 0-9)  
> or from some other source?

>From whatever source can make the best estimate...

Bob

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 08:07:01 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA28965  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 15 Dec 1999 08:06:59 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 15 Dec 1999 09:06:00 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Range Scale  
In-Reply-To: <[LYR11586-55205-1999.12.14-18.47.19--bruninga@nadn.navy.mil@lists.tapr.org](mailto:LYR11586-55205-1999.12.14-18.47.19--bruninga@nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-55277-1999.12.15-08.21.37--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-55277-1999.12.15-08.21.37--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9912150848200.21903-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

One serious omission from the SPEC is the concept of RANGE SCALE. Although it is not an "ON-AIR" issue, it is fundamental to all tactical display systems and APRS.

Two people viewing the same tactical display centered on the same LAT/LONG can not see the same tactical picture AT ALL, unless they are viewing the area to the same MAP scale. A view centered on the WhiteHouse at the 2 mile scale to see the Marine Corps Marathon, will look almost 100% different to another viewer viewing Washington DC at the 64 mile scale.

I hear it ALL THE TIME. Two people looking at the "same" map and yet not seeing the same thing at all, and arguing by voice over the air that they cannot see what the other person is talking about.

The Army, The Navy, The Marine Corps, the Airforce, the FAA and APRSdos and everyone else that uses tactical displays ALWAYS refers to RANGE SCALE. This dimension is absolutely critical to exchanging information. APRS is a system of "views". There are THREE variables to a VIEW. LAT/LONG and SCALE.

In my opinion, we should use the same RANGE SCALE system used by all other tactical systems, and that is the RANGE from the center of the screen to the top or bottom. Thus If I am looking at the 64 mile RANGE SCALE, then I see all things within 64 miles of me. On a 3/4 CRT, of course, I can "also" see things as much as 100 miles from me to the east and west, but that is coincidental. The fact that if I am on the "64 mile scale" that I can see "ALL" objects within 64 miles of me is the critical concept.

In APRSdos, if you select METRIC, then these scales are shown in KM. These "views" need not be "precisely" to the edge of the map. APRSdos actually displays about 10% or more beyond the exact "64 mile" ring, but they are important to bound the "scale" of the view.

I will take a look at the spec and look for where this concept should be added. Authors have argued that this is a local display issue. I disagree. Specifying "views" for commonality in human understanding of tactical events, MUST include not only the CENTER, but also the RANGE.

8 different users of 8 different programs must be able to all see the same thing when one of them says "Go to 3859N 07629W at the 32 mile scale and tell me how many mobiles are there..."

This is far more than a local display issue....

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 11:08:24 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA04958  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 15 Dec 1999 11:08:22 -0600 (CST)  
From: "Michael J. Allison / KN6ZT" <[mallison@livingston.com](mailto:mallison@livingston.com)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Cc: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: UNCLEAR: DF element  
Date: Wed, 15 Dec 1999 09:12:56 -0800  
Message-ID: <LYR11589-55309-1999.12.15-11.23.06--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
In-Reply-To: <LYR11766-55275-1999.12.15-08.07.11--  
[mjallison#lucent.com@lists.tapr.org](mailto:mjallison#lucent.com@lists.tapr.org)>  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
Importance: Normal  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <000601bf471f\$a0fff330\$a820c695@livingston.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Bob,

Sounds like a bit of explanation on those items,  
such as you added here, would be useful.

Thanks  
mike kn6zt

-----Original Message-----

From: bounce-aprsspec-11766@lists.tapr.org  
[<mailto:bounce-aprsspec-11766@lists.tapr.org>]On Behalf Of Bob Bruninga  
Sent: Wednesday, December 15, 1999 5:48 AM  
To: APRS Spec Discussion List

Cc: APRS Spec Discussion List  
Subject: [aprsspec] Re: UNCLEAR: DF element

On Tue, 14 Dec 1999, Michael J. Allison / KN6ZT wrote:

> The unclear part for me is where the numbers N, R, and Q are  
> derived from.

>

Quoted reply omitted.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 13:26:32 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA09610  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 15 Dec 1999 13:26:24 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 15 Dec 1999 14:26:07 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Range Scale  
In-Reply-To: <[LYR11586-55277-1999.12.15-08.21.37--bruninga@nadn.navy.mil@lists.tapr.org](mailto:LYR11586-55277-1999.12.15-08.21.37--bruninga@nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-55337-1999.12.15-13.41.08--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-55337-1999.12.15-13.41.08--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9912151417060.7286-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Here is my recommended additon to the SPEC for Range Scale:

Under the general chapter on "Design Philopsohy" add at the bottom of page 11, words to the effect of....:

MAP VIEWS: As a tactical geographical system, users of APRS need to be able to relate "map views" in a non ambiguous way. Thus, all map displays should have a meaningful legend to convey to the user, the scale of the map view. To then be able to communicate about such views, there are three coordinates required. Latitude and Longitude of the map center and Range Scale.

In this context, Range Scale is the approximate range in either Nautical miles, Miles, or Killometers from the center of the map to the top or bottom. This convention gives all software users a common basis for describing tactical map views (at whatever range scale is in use).

I hope that does not step on any toes.... But is very important for APRS.

Bob

On Wed, 15 Dec 1999, Bob Bruninga wrote:

> One serioius ommission from the SPEC is the concept of RANGE SCALE.  
> Although it is not an "ON-AIR" issue, it is fundamental to all tactical  
> display systems and APRS.  
>  
> Two people viewing the same tactical display centerd on the same LAT/LONG  
> can not see the same tactical picture AT ALL, unless they are viewing the  
> area to the same MAP scale. A view centered on the WhiteHouse at the 2  
> mile scale to see the Marine Corps Marathon, will look almost 100%  
> different to another viewer viewing Washington DC at the 64 mile scale.  
>  
> I hear it ALL THE TIME. Two people looking at the "same" map and yet not  
> seeing the same thing at all, and arguing by voice over the air that they  
> cannot see what the other person is talking about.  
>  
> The Army, The Navy, THE Marine Corps, the Airforce, the FAA and  
> APRSdos and everyone else that uses tactical displays ALWAYS refers to  
> RANGE SCALE. This dimension is absolutely critical to exchanging  
> information. APRS is a system of "views". There are THREE variables to a  
> VIEW. LAT/LONG and SCALE.  
>  
> In my opinion, we should use the same RANGE SCALE system used by all other  
> tactical systems, and that is the RANGE from the center of the screen to  
> the top or bottom. Thus If I am looking at the 64 mile RANGE SCALE, then  
> I see all things within 64 miles of me. On a 3/4 CRT, of course, I can  
> "also" see things as much as 100 miles from me to the east andd west, but  
> that is coincidental. The fact that if I am on the "64 mile scale" that I  
> can see "ALL" objncts within 64 miles of me is the critical concept.  
>

> In APRSdos, if you select METRIC, then these scales are shown in KM.  
> These "views" need not be "precisely" to the edge of the map. APRSdos  
> actually displays about 10% or more beyond the exact "64 mile" ring, but  
> they are important to bound the "scale" of the view.  
>  
> I will take a look at the spec and look for where this concept should be  
> added. Authors have argued that this is a local display issue. I  
> disagree. Specifiing "views" for comonality in human understanding of  
> tactical events, MUST include not only the CENTER, but also the RANGE.  
>  
> 8 different users of 8 different programs must be able to all see the same  
> thing when one of them says "Go to 3859N 07629W at the 32 mile scale and  
> tell me how many mobiles are there..."...  
>  
> This is far more than a local display issue....  
>  
>  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 13:33:05 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA09874  
for <lyris.aprsspec@tapr.org>; Wed, 15 Dec 1999 13:33:04 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 15 Dec 1999 14:32:35 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>



Subject: [aprsspec] Fr. Spocs  
In-Reply-To: <LYR11586-55277-1999.12.15-08.21.37--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55339-1999.12.15-13.47.45--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912151431510.7286-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Can we change the Dr. Spocs of this world to "scientists" or something?

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Dec 15 13:43:39 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA10262  
for <lyris.aprsspec@tappr.org>; Wed, 15 Dec 1999 13:43:36 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 15 Dec 1999 14:31:39 -0500 (EST)  
From: Bob Bruninga <bruninga#nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Range Scale  
In-Reply-To: <LYR11586-55277-1999.12.15-08.21.37--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55341-1999.12.15-13.58.22--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9912151426250.7286-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Some more trivia to the spec:

ON page 1 where you refer to my name twice. Can I ask that my call, WB4APR also be included.

On page two where you describe the construct of the working group. can JOHN ACKERMAN please offer some legaleeze to protect us from frivolous litigation with words such as....

USE AT YOUR OWN RISK ... and cannot be held liable for the use or application of this standard or to any dameages that may result... BLAH, BLAH, BLAH...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 15 23:41:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA29228  
for <lyris.aprsspec@tapr.org>; Wed, 15 Dec 1999 23:41:35 -0600 (CST)  
Message-Id: <LYR11589-55391-1999.12.15-23.56.22--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 15 Dec 1999 22:41:14 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Net Cycle and WIDEn-N  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130302b47e2b105011@[198.106.196.80]>  
<LYR11893-55235-1999.12.15-00.00.18--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello Group -

In the description of Net Cycle on page 9, it seems to overlook the following unproto path: ... VIA WIDE5-5.

To "unsmart" software, this would appear as a 1-digi path and would use the wrong Net Cycle time.

Sincerely,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 01:09:06 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA07106  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 01:09:05 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55410-1999.12.16-01.23.49--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 16 Dec 1999 00:08:41 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Default Null Position  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b47e3ed3f603@[198.106.196.80]>  
<LYR11893-55235-1999.12.15-00.00.18--wagnerj@proaxis.com@lists.tapr.org>

Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello, group

On page 22 of the draft spec, the idea of a "Default Null Position" is offered. It suggests an appropriate format for a station that cannot determine its position as 0000.00N and 00000.00W.

Unfortunately, this is a real location on the surface of the earth. While the odds of an APRS station being there is very small, the odds are NOT zero.

The earlier paragraph about Position Ambiguity really solves that problem. This is, after all, a situation of nearly-infinite ambiguity. Thus, the format

" . N" and " . W" (that is, spaces in all position digits)

is perfectly logical. And, there is no chance of mis-interpreting it as a position.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 01:40:21 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA07720  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 01:40:15 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55412-1999.12.16-01.54.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Date: Thu, 16 Dec 1999 00:39:12 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Data Extensions  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>  
X-Message-Id: <103130300b47e420db874@[198.106.196.231]>  
<LYR11893-55394-1999.12.16-00.00.13--wagnerj#proaxis.com@lists.tapir.org>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

On page 24, it is printed:

A fixed-length, 7-byte field may follow APRS position data. The field is an APRS Data Extension. The extensions may be one of the following:

- \* CSE/SPD ....
- \* DIR/SPD ...
- \* PHGphgd
- \* RNGrrrr
- \* DFSshgd
- \* Tyy/Cxx

What I read seems very contradictory and incomplete. In the quoted sentence at the very start of the section, it talks about "following position data". There are no qualifications, or limitations.

Then, a bit later, it just slips in "can be used to represent the wind direction and sustained one-minute wind speed in a Weather Report."

Is, this, in fact, the wind direction and speed field indicated in "Weather Report Format - with Lat/Long Position" on page 51? If so, that page seems rather silent on the point.

Something, please something, should be done to reduce these ambiguities!!!

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 06:57:31 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA22528  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 06:57:31 -0600 (CST)  
Mime-Version: 1.0  
Message-Id: <LYR11589-55422-1999.12.16-07.12.07--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Thu, 16 Dec 1999 07:56:04 -0500  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Keith Sproul <[ksproul@vger.rutgers.edu](mailto:ksproul@vger.rutgers.edu)>  
Subject: [aprsspec] Opps, my apologies  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[v04205513b47e916bb093@\[165.230.139.231\]](mailto:v04205513b47e916bb093@[165.230.139.231])>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

For Bill C. and the Spec SIG...

Tuesday I wanted to show that there were differences between APRS  
platforms, and used a "PALM" as an example.

This was supposed to be hypothetical... but I sort of forgot that there is  
a real v1.0 of a real Palm program, PocketAPRS. I left the impression that  
this program didn't handle regular APRS messages, and that's not the case.

So... please... pardon my goof!

|                                                                                   |                     |
|-----------------------------------------------------------------------------------|---------------------|
| Keith                                                                             |                     |
| Keith Sproul                                                                      | 732 445-3695 Office |
| Student Housing Network Coordinator                                               | 732 445-2968 Fax    |
| <a href="mailto:ksproul@rci.rutgers.edu">mailto:ksproul@rci.rutgers.edu</a>       | 732 821-4828 Home   |
| <a href="http://dorm.rutgers.edu/~ksproul/">http://dorm.rutgers.edu/~ksproul/</a> | WU2Z                |

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 09:07:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA26318  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 09:06:55 -0600 (CST)  
Message-ID: <LYR11589-55432-1999.12.16-09.21.41--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
From: [billc@zebra.net](mailto:billc@zebra.net) (Bill Cleveland)  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Cc: "Bob Bruninga" <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>,  
"Keith Sproul" <[ksproul@vger.rutgers.edu](mailto:ksproul@vger.rutgers.edu)>  
References: <LYR13396-55422-1999.12.16-07.12.07--[billc@zebra.net](mailto:billc@zebra.net)@lists.tapr.org>  
Subject: [aprsspec] Re: Opps, my apologies  
Date: Thu, 16 Dec 1999 09:04:25 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <005001bf47e7\$b242c140\$02a0a8c0@Bill>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

No problem. Maybe we should stick to using fictional programs for examples.

I'd still like to formally reserve the following version type:

APVxyz = APRS protocol version x.y.z

Who do I need to send this to in order to have it appended to the list on  
Page 20 of the "APRS Protocol Reference" ?

73,  
Bill

----- Original Message -----

From: Keith Sproul <ksproul@vger.rutgers.edu>  
To: APRS Spec Discussion List <aprsspec@lists.tapir.org>  
Sent: Thursday, December 16, 1999 4:56 AM  
Subject: [aprsspec] Opps, my apologies

> For Bill C. and the Spec SIG...  
>  
> Tuesday I wanted to show that there were differences between APRS  
> platforms, and used a "PALM" as an example.  
>  
> This was supposed to be hypothetical... but I sort of forgot that there is  
> a real v1.0 of a real Palm program, PocketAPRS. I left the impression that  
> this program didn't handle regular APRS messages, and that's not the case.  
>  
> So... please... pardon my goof!  
>  
>  
> Keith  
> Keith Sproul 732 445-3695 Office  
> Student Housing Network Coordinator 732 445-2968 Fax  
> mailto:ksproul@rci.rutgers.edu 732 821-4828 Home  
> http://dorm.rutgers.edu/~ksproul/ WU2Z  
>  
> ---  
> You are currently subscribed to aprsspec as: billc@zebra.net  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org  
>  
>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tapir.org Thu Dec 16 09:18:51 1999  
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])  
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id JAA26634  
for <lyris.aprsspec@tapir.org>; Thu, 16 Dec 1999 09:18:47 -0600 (CST)  
Message-Id: <LYR11589-55434-1999.12.16-09.33.33--  
lyris.aprsspec#tapir.org@lists.tapir.org>  
Subject: [aprsspec] Re: Default Null Position  
Date: Thu, 16 Dec 1999 09:18:08 -0600  
x-sender: sdimse@earthlink.net  
From: Steve Dimse <k4hg@tapir.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>  
Mime-Version: 1.0



Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912161518.HAA12230@avocet.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On 12/16/99 1:08 AM Jim Wagner (wagnerj@proaxis.com) wrote:

>The earlier paragraph about Position Ambiguity really solves that problem.  
>This is, after all, a situation of nearly-infinite ambiguity. Thus, the  
>format  
>  
>" . N" and " . W" (that is, spaces in all position digits)  
>  
>is perfectly logical. And, there is no chance of mis-interpreting it as a  
>position.  
>

The problem is that this need to be converted to a number for internal representation. I doubt very many of present implementations could handle this at all. Many products out there are already using 0N 0W as the null, keep in mind that this version represents APRS as it is.

Finally, why 0N 0W is indeed a real point, it is not a very interesting one from an APRS standpoint. It is highly unlikely that anyone running APRS will ever be there, and even if they tried to anchor directly on the point, normal GPS dithering would result in only a tiny percentage of their posits actually being 0.000000N 0.000000E.

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 16 09:19:43 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA26659  
for <lyris.aprsspec@tappr.org>; Thu, 16 Dec 1999 09:19:37 -0600 (CST)  
From: Charles Suprin <csuprin@lynx.dac.neu.edu>  
Message-Id: <LYR11589-55435-1999.12.16-09.34.26--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] INCONSISTENCY Is APRS software or Protocol?  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Date: Thu, 16 Dec 1999 10:19:27 -0500 (EST)  
Reply-To: csuprin@lynx.dac.neu.edu  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912161519.KAA21032@lynx02.dac.neu.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello,

On page 7 the spec states "APRS is a packet communication protocol ..."

However on Page 8 it states "APRS runs on most platforms,..."

Also on page 26 is states "APRS uses the p,h,g and d codes to calculate ...". Also on page 26 "The 7-byte DFSShgd Data Extension lets APRS..."  
These two Items suggest that APRS is software.

Perhaps this should be reworded as "APRS clients run on most platforms..."  
and an "APRS client might use the p,h,g and d ...".

I suggest the usage of the term "might use" as there is exists other more complicated propagation models that consider local terrain features. Or it could ignore them completely. For instance does my TD7A do these computations?

Perhaps the standard to include both the software aspects  
and the protocol aspects should more clearly separate out into part 1  
The protocol in gory detail. And Part 2 Things that software might want  
to do with the data acquired from via the APRS protocol.

Also another organization change that would be quite useful for  
discussing the standard would be to add section and subsection  
numbering. This would be useful in the days when an HTML or PDF or  
Postscript version is available and all have different paginations to  
make it easier to discuss which content we are referring to.

After this criticism of the document I feel the need to say that all the  
content I was looking for is contained in this document.

Charles Suprin  
KB1DBX

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 09:28:37 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA26892  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 09:28:33 -0600 (CST)  
Message-Id: <LYR11589-55436-1999.12.16-09.43.11--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Opps, my apologies  
Date: Thu, 16 Dec 1999 09:26:23 -0600  
x-sender: sdimse@earthlink.net  
From: Steve Dimse <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912161526.HAA10740@penguin.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/16/99 11:04 AM Bill Cleveland (billc@zebra.net) wrote:

>No problem. Maybe we should stick to using fictional programs for examples.

>

>I'd still like to formally reserve the following version type:

>

> APVxyz = APRS protocol version x.y.z

>

>Who do I need to send this to in order to have it appended to the list on

>Page 20 of the "APRS Protocol Reference" ?

>

I guess I'm not clear on your planned usage of this. These codes are reserved for specific software and hardware implementations of the protocol. While the APRSWG hasn't specifically addressed the mechanics of handing these out, I suspect we will want to wait until someone has a program or device ready for on-air testing, since we have a limited number of available codes.

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 10:04:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA27921  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 10:04:41 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Default Null Position  
Date: Thu, 16 Dec 1999 18:05:56 +0200  
Message-ID: <LYR11589-55439-1999.12.16-10.19.25--  
[lyris.aprsspec@lists.tapr.org](mailto:lyris.aprsspec@lists.tapr.org)>  
References: <LYR13206-55434-1999.12.16-09.33.33--  
[Paul.Keinanen@lists.tapr.org](mailto:Paul.Keinanen@lists.tapr.org)>  
In-Reply-To: <LYR13206-55434-1999.12.16-09.33.33--  
[Paul.Keinanen@lists.tapr.org](mailto:Paul.Keinanen@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <il1i5sor11tjhg2h9spmumhopdvmvqvm81@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 16 Dec 1999 09:18:08 -0600, Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)> wrote:

>On 12/16/99 1:08 AM Jim Wagner ([wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)) wrote:  
>  
>>The earlier paragraph about Position Ambiguity really solves that problem.  
>>This is, after all, a situation of nearly-infinite ambiguity. Thus, the  
>>format  
>>  
>>" . N" and " . W" (that is, spaces in all position digits)  
>>  
>>is perfectly logical. And, there is no chance of mis-interpreting it as a  
>>position.  
>>  
>The problem is that this need to be converted to a number for internal  
>representation. I doubt very many of present implementations could handle  
>this at all.

Clearly any device forwarding a position must handle the following things in some consistent way

07201.7\_W represents longitude to nearest 1/10th of a minute.  
07201.\_\_\_W represents longitude to nearest minute.  
0720.\_\_\_W represents longitude to nearest 10 minutes.  
072\_\_.\_\_\_W represents longitude to nearest degree.

where \_ represent the space character. It is clearly wrong to receive a position of 072\_\_.\_\_\_W and forward it as 07200.00W, so either the ASCII string must be stored and forwarded or some other means must be used the number of digits used.

>Many products out there are already using 0N 0W as the null,  
>keep in mind that this version represents APRS as it is.

What should the receiving application do with an invalid coordinate that somehow (eg. manually), has been entered into the system.

What should the application do with 9999.99N ? IMHO, this is a much better null coordinate than 0000.00N/000000.00W, which would remove any ambiguity with a real position and a null position.

>Finally, why 0N 0W is indeed a real point, it is not a very interesting  
>one from an APRS standpoint. It is highly unlikely that anyone running  
>APRS will ever be there, and even if they tried to anchor directly on the  
>point, normal GPS dithering would result in only a tiny percentage of  
>their posits actually being 0.000000N 0.000000E.

At the equator one minute would represent one nautical mile in both latitude and longitude. With the full .00 precision, that would be about 19 m, which is comparable to the GPS precision when the SA is turned off :-).

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 10:15:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA28184  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 10:15:33 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 16 Dec 1999 11:14:26 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Net Cycle and WIDEn-N  
In-Reply-To: <LYR11586-55391-1999.12.15-23.56.22--bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55441-1999.12.16-10.30.19--lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912161110110.27112-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 15 Dec 1999, Jim Wagner wrote:

> In the description of Net Cycle on page 9, it seems to overlook the  
> following unproto path: ... VIA WIDE5-5.  
> To "unsmart" software, this would appear as a 1-digi path and would use the  
> wrong Net Cycle time.

Good point. But I think the wording "number of digipeaters in the unproto path" also covers this for the smart programmer.

Maybe we could insert "number of digipeaters or WIDEn-N hops"....

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 10:18:50 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA28347  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 10:18:49 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 16 Dec 1999 11:17:53 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Default Null Position  
In-Reply-To: <LYR11586-55410-1999.12.16-01.23.49--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55442-1999.12.16-10.33.28--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912161115200.27112-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Thu, 16 Dec 1999, Jim Wagner wrote:

> On page 22 of the draft spec, the idea of a "Default Null Position" is  
> offered. It suggests an appropriate format for a station that cannot  
> determine its position as 0000.00N and 00000.00W.  
>  
> Unfortunately, this is a real location on the surface of the earth. While  
> the odds of an APRS station being there is very small, the odds are NOT  
> zero.

But it is only 60 feet square in the middle of the ocean. With selective  
availability, no station could maintain a 0000000000 posit for more than a  
few seconds anyway...

The null SPACES idea requires additional (exception) parsing, and is not  
worth that .0000000001 probability... in my opinion...:-) Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 16 10:26:05 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA28515  
for <lyris.aprsspec@tappr.org>; Thu, 16 Dec 1999 10:26:02 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 16 Dec 1999 11:25:13 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>

X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Data Extensions  
In-Reply-To: <LYR11586-55412-1999.12.16-01.54.58--bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55443-1999.12.16-10.40.49--lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912161121480.27112-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Thu, 16 Dec 1999, Jim Wagner wrote:

> On page 24, it is printed:  
>  
> A fixed-length, 7-byte field may follow APRS position data. The field is an  
> APRS Data Extension. The extensions may be one of the following:  
>  
> \* CSE/SPD ....  
> \* DIR/SPD ...  
> \* PHGphgd  
> \* RNGrrrr  
> \* DFSshgd  
> \* Tyy/Cxx  
>  
>  
> What I read seems very contradictory and incomplete. In the quoted sentence  
> at the very start of the section, it talks about "following position data".  
> There are no qualifications, or limitations.

Maybe the above list should include the one other possibility, and that is  
that it can contain ..... as well as the examples above followed by  
.....

>  
> Then, a bit later, it just slips in "can be used to represent the wind  
> direction and sustained one-minute wind speed in a Weather Report."  
>  
> Is, this, in fact, the wind direction and speed field indicated in "Weather  
> Report Format - with Lat/Long Position" on page 51? If so, that page seems



> rather silent on the point.

Yes, this is the same format.

> Something, please something, should be done to reduce these ambiguities!!!

I don't understand the ambiguity? A position report comment field can contain lots of stuff. This paragraph was an attempt to identify a number of those currently defined and in use.

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 10:56:39 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29153  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 10:56:34 -0600 (CST)  
From: Charles Suprin <[csuprin@lynx.dac.neu.edu](mailto:csuprin@lynx.dac.neu.edu)>  
Message-Id: <LYR11589-55448-1999.12.16-11.11.16--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Subject: [aprsspec] Re: Default Null Position  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Date: Thu, 16 Dec 1999 11:38:23 -0500 (EST)  
Reply-To: [csuprin@lynx.dac.neu.edu](mailto:csuprin@lynx.dac.neu.edu)  
In-Reply-To: <LYR13478-55439-1999.12.16-10.19.25--  
[csuprin@lynx.dac.neu.edu](mailto:csuprin@lynx.dac.neu.edu)@lists.tapr.org> from "Paul Keinanen" at Dec 16, 99 06:05:56  
pm  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
Sender: bounce-aprsspec-11589@lists.tapr.org  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <199912161656.LAA14589@lynx02.dac.neu.edu>  
Precedence: bulk

Please note that the purpose of this specification is to document the way the system currently works.

I agree that this is a short coming of the system. However it should be a shortcoming that is addressed in APRS v2.0. If we wanted to open this

up to everything that could be better we would be here all day. I have things I think should happen.

Now as to bobs comment: Anything worth doing is worth doing right. If someone wants to lower a sea anchor and manually enter a position into there system of 0.0000000000N 0.000000000E then they should be allowed to and the system should work. What happens if there happens to be oil at that location? The rig could actually be there.

Also many standards state that there are things a compliant system should do versus things the system must do. Perhaps we should include this as a should do in 2.0.

Charles

```
>
> On Thu, 16 Dec 1999 09:18:08 -0600, Steve Dimse <k4hg@tapr.org> wrote:
>
> >On 12/16/99 1:08 AM Jim Wagner (wagnerj@proaxis.com) wrote:
> >
> >>The earlier paragraph about Position Ambiguity really solves that problem.
> >>This is, after all, a situation of nearly-infinite ambiguity. Thus, the
> >>format
> >>
> >>" . N" and " . W" (that is, spaces in all position digits)
> >>
> >>is perfectly logical. And, there is no chance of mis-interpreting it as a
> >>position.
> >>
> >The problem is that this need to be converted to a number for internal
> >representation. I doubt very many of present implementations could handle
> >this at all.
>
> Clearly any device forwarding a position must handle the following
> things in some consistent way
>
> 07201.7_W represents longitude to nearest 1/10th of a minute.
> 07201.__W represents longitude to nearest minute.
> 0720.__W represents longitude to nearest 10 minutes.
> 072__.__W represents longitude to nearest degree.
>
> where _ represent the space character. It is clearly wrong to receive
> a position of 072__.__W and forward it as 07200.00W, so either the
> ASCII string must be stored and forwarded or some other means must be
> used the number of digits used.
>
> >Many products out there are already using 0N 0W as the null,
```

> >keep in mind that this version represents APRS as it is.  
>  
> What should the receiving application do with an invalid coordinate  
> that somehow (eg. manually), has been entered into the system.  
>  
> What should the application do with 9999.99N ? IMHO, this is a much  
> better null coordinate than 0000.00N/00000.00W, which would remove any  
> ambiguity with a real position and a null position.  
>  
>  
> >Finally, why 0N 0W is indeed a real point, it is not a very interesting  
> >one from an APRS standpoint. It is highly unlikely that anyone running  
> >APRS will ever be there, and even if they tried to anchor directly on the  
> >point, normal GPS dithering would result in only a tiny percentage of  
> >their posits actually being 0.000000N 0.000000E.  
>  
> At the equator one minute would represent one nautical mile in both  
> latitude and longitude. With the full .00 precision, that would be  
> about 19 m, which is comparable to the GPS precision when the SA is  
> turned off :-).  
>  
> Paul OH3LWR  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: csuprin@lynx.neu.edu  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 16 11:01:09 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA29317  
for <lyris.aprsspec@tappr.org>; Thu, 16 Dec 1999 11:01:09 -0600 (CST)  
Message-Id: <LYR11589-55449-1999.12.16-11.15.50--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: Default Null Position  
Date: Thu, 16 Dec 1999 10:59:22 -0600  
x-sender: sdimse@earthlink.net  
From: Steve Dimse <k4hg@tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912161659.IAA11371@avocet.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/16/99 10:05 AM Paul Keinanen (keinanen@sci.fi) wrote:

>On Thu, 16 Dec 1999 09:18:08 -0600, Steve Dimse <k4hg@tapr.org> wrote:  
>  
>>The problem is that this need to be converted to a number for internal  
>>representation. I doubt very many of present implementations could handle  
>>this at all.

>  
>Clearly any device forwarding a position must handle the following  
>things in some consistent way

>  
>07201.7\_W represents longitude to nearest 1/10th of a minute.  
>07201.\_\_W represents longitude to nearest minute.  
>0720.\_\_W represents longitude to nearest 10 minutes.  
>072\_\_.\_W represents longitude to nearest degree.

>  
>where \_ represent the space character. It is clearly wrong to receive  
>a position of 072\_\_.\_W and forward it as 07200.00W, so either the  
>ASCII string must be stored and forwarded or some other means must be  
>used the number of digits used.

>  
Well, this has been a MAJOR point of contention between Bob and myself  
over the last year. I am completely unconvinced that there is a need for  
ambiguity in the first place. What we finally decided after an great deal  
of arguing is we would place it into the protocol, but it is up to the  
individual programmer on if, and how, to handle the ambiguity.

All my software treats 072\_\_.\_W as 72.00000, and will continue to. I do  
not find any display method yet proposed satisfactory for conveying  
ambiguity...I do not like stations simply disappearing as you zoom in on  
a map, and using circles or squares results in a clutter map and is  
difficult to associate a particular callsign with a zone of ambiguity.  
Finally, there is no way at all I could handle these on the map.aprs.net  
system.

>>Many products out there are already using 0N 0W as the null,  
>>keep in mind that this version represents APRS as it is.

>

>What should the receiving application do with an invalid coordinate  
>that somehow (eg. manually), has been entered into the system.  
>  
>What should the application do with 9999.99N ? IMHO, this is a much  
>better null coordinate than 0000.00N/00000.00W, which would remove any  
>ambiguity with a real position and a null position.  
>  
This is not an option. It is impossible in the Mic-E algorithm to specify  
this position.  
  
>  
>>Finally, why 0N 0W is indeed a real point, it is not a very interesting  
>>one from an APRS standpoint. It is highly unlikely that anyone running  
>>APRS will ever be there, and even if they tried to anchor directly on the  
>>point, normal GPS dithering would result in only a tiny percentage of  
>>their posits actually being 0.000000N 0.000000E.  
>  
>At the equator one minute would represent one nautical mile in both  
>latitude and longitude. With the full .00 precision, that would be  
>about 19 m, which is comparable to the GPS precision when the SA is  
>turned off :-).  
>  
Yes, and SA has not been turned off since the Gulf war for an significant  
length of time. It is about 350 miles from the nearest land, too far for  
DGPS. So, in order for this to be a significant problem, you would need a  
marine mobile APRS station deliberately keeping station within the 20  
meter box at 0N 0W and SA being turned off. That's pretty close to my  
definition of highly unlikely...

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 12:05:42 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00923  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 12:05:40 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 16 Dec 1999 13:04:52 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Default Null Position  
In-Reply-To: <LYR11586-55439-1999.12.16-10.19.25--

bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55455-1999.12.16-12.20.29--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912161303080.17058-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Paul,

Yes, there are lots of possible ways to indicate a NULL position. But for the SPEC of what APRS is today, it is 0000/00000. Nothing will change that in APRS version 1.0. That's just the way it is in all current hardware and software....

Sorry...

Bob

On Thu, 16  
Dec 1999, Paul Keinanen wrote:

> On Thu, 16 Dec 1999 09:18:08 -0600, Steve Dimse <k4hg@tappr.org> wrote:  
>  
> >On 12/16/99 1:08 AM Jim Wagner (wagnerj@proaxis.com) wrote:  
> >  
> >>The earlier paragraph about Position Ambiguity really solves that problem.  
> >>This is, after all, a situation of nearly-infinite ambiguity. Thus, the  
> >>format  
> >>  
> >>" . N" and " . W" (that is, spaces in all position digits)  
> >>  
> >>is perfectly logical. And, there is no chance of mis-interpreting it as a  
> >>position.  
> >>  
> >>The problem is that this need to be converted to a number for internal  
> >>representation. I doubt very many of present implementations could handle  
> >>this at all.  
>  
> Clearly any device forwarding a position must handle the following  
> things in some consistent way  
>

> 07201.7\_W represents longitude to nearest 1/10th of a minute.  
 > 07201.\_\_W represents longitude to nearest minute.  
 > 0720\_\_.\_\_W represents longitude to nearest 10 minutes.  
 > 072\_\_.\_\_W represents longitude to nearest degree.  
 >  
 > where \_ represent the space character. It is clearly wrong to receive  
 > a position of 072\_\_.\_\_W and forward it as 07200.00W, so either the  
 > ASCII string must be stored and forwarded or some other means must be  
 > used the number of digits used.  
 >  
 > >Many products out there are already using 0N 0W as the null,  
 > >keep in mind that this version represents APRS as it is.  
 >  
 > What should the receiving application do with an invalid coordinate  
 > that somehow (eg. manually), has been entered into the system.  
 >  
 > What should the application do with 9999.99N ? IMHO, this is a much  
 > better null coordinate than 0000.00N/00000.00W, which would remove any  
 > ambiguity with a real position and a null position.  
 >  
 >  
 > >Finally, why 0N 0W is indeed a real point, it is not a very interesting  
 > >one from an APRS standpoint. It is highly unlikely that anyone running  
 > >APRS will ever be there, and even if they tried to anchor directly on the  
 > >point, normal GPS dithering would result in only a tiny percentage of  
 > >their posits actually being 0.000000N 0.000000E.  
 >  
 > At the equator one minute would represent one nautical mile in both  
 > latitude and longitude. With the full .00 precision, that would be  
 > about 19 m, which is comparable to the GPS precision when the SA is  
 > turned off :-).  
 >  
 > Paul OH3LWR  
 >  
 >  
 > ---  
 > You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil  
 > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org  
 >  
 >

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
 US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
 See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
 See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
 See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 13:08:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA02698  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 13:08:44 -0600 (CST)  
Message-ID: <LYR11589-55462-1999.12.16-13.23.28--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
From: [billc@zebra.net](mailto:billc@zebra.net) (Bill Cleveland)  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
References: <LYR13396-55436-1999.12.16-09.43.11--[billc@zebra.net](mailto:billc@zebra.net)>  
Subject: [aprsspec] Re: Opps, my apologies  
Date: Thu, 16 Dec 1999 13:06:52 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <00bf01bf4809\$7b5162a0\$02a0a8c0@Bill>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

----- Original Message -----

From: Steve Dimse <[k4hg@tapr.org](mailto:k4hg@tapr.org)>

> I guess I'm not clear on your planned usage of this. These codes are  
> reserved for specific software and hardware implementations of the  
> protocol.

My planned usage for this is to act as a general indicator of what protocol version is in use by a client. APV101 would indicate APRS protocol ver. 1.0.1 is being used. I still think assigning a specific code to each individual software/hardware implementation isn't as useful as tagging the protocol being used.

If I write a software implementation of APRS and I chose to support V.1.0.0



of the APRS protocol, I could use APV100 to identify my software implementation as being APRS V.1.0.0 compliant.

> While the APRSWG hasn't specifically addressed the mechanics of handing these out, ...

How can you open a protocol to public comment, and not have any plans in place to act on them?

> I suspect we will want to wait until someone has a  
> program or device ready for on-air testing, since we have a limited  
> number of available codes.

What if I start using APV at my site, lets say within the next 2 days?

73,  
Bill

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 13:17:52 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA02954  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 13:17:48 -0600 (CST)  
Date: Thu, 16 Dec 1999 13:17:37  
Subject: [aprsspec] Mic-E Destination Address Field  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: "Lief Hendrickson" <lhendric@mail.sdsu.edu>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-Id: <LYR11589-55464-1999.12.16-13.32.33--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Precedence: bulk

The following related comments apply to Chapter 10, APRS Protocol Version 1.0. For these comments, LSB is numbered as zero.

1. Page 37. There appears to be inadequate definition in MIC-E Destination Address Field-

The fifth bit in each of the first 6 bytes of the destination field is not adequately defined. It is shown by the symbol "x" (the 9th bullet on page 37) which we are told is either a 0 or 1. However, there is no definition of where the 0 or 1 come from. We can handle the value of x as being part of the bit pattern for the corresponding letter and then follow the table. However, what is the purpose of the "x" parameter? The condition corresponding to 0 and the condition corresponding to 1 should be specified...unless it's a secret! Is it just a flag to indicate the shifted sequence? If so, why even bother since the P thru Z sequence could convey the same information.

2. page 38. The convention on latitude digit for letters A thru K is not clear-

The representation on page 37 indicates the latitude digits are the numerical value of the nibble made up of bits 1 thru 4 (shown as "dddd" in the 1st and 2nd bytes, "mmmm" in the 3rd and 4th bytes and "hhhh" in the 5th and 6th bytes). For the letter "A", the nibble is 0001. This is clearly the decimal value 1, not the decimal value 0 shown in the upper table on page 38. For "B", the corresponding nibble is 0010 which is the decimal value 2, not the decimal value 1 shown in the table, etc. for the remaining letters in the A to J sequence. They are all shifted by 1. Possibly the notation "(custom)" in the table indicates it is a look-up table (consisting of a offset-by-one pattern) for the A to J sequence rather than the numerical value of the nibble (which would make more sense!). If so, it should be stated- and one would wonder the reason (and value) for this difference in representation over the more straight-forward direct numerical value of the nibble.

I may have missed some reason for the above. Explanation or corrections of interpretation would be appreciated.

Thanks.  
Lief Hendrickson

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 14:27:19 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA05156  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 16 Dec 1999 14:27:18 -0600 (CST)  
Message-ID: <LYR11589-55470-1999.12.16-14.42.04--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>

From: "Thomas M. Schaefer" <toms@inconnect.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Shelter Message  
Date: Thu, 16 Dec 1999 13:26:51 -0700  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3612.1700  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01ba01bf4803\$e840b600\$6ec6ed89@sc017588.dts.harris.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

At the DCC 1999, Keith Sproul mentioned that the Shelter data formats are defined, just not implemented. I have searched the spec, but did not see a reference to the message format. If it is not in a current program, I assume it does not go in the spec?

If there is a working format, it would be helpful for on-going development efforts rather than define a new one.

Thanks,

Tom NY4I

-----Original Message-----

From: Bob Bruninga <bruninga@nadn.navy.mil>  
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Date: Thursday, December 16, 1999 11:05 AM  
Subject: [aprsspec] Re: Default Null Position

>Paul,

> Yes, there are lots of possible ways to indicate a NULL position. But  
>for the SPEC of what APRS is today, it is 0000/00000. Nothing will  
>change that in APRS version 1.0. That's just the way it is in all current  
>hardware and software....

>

>Sorry...

>

>Bob

```

>
>
> On Thu, 16
>Dec 1999, Paul Keinanen wrote:
>
>> On Thu, 16 Dec 1999 09:18:08 -0600, Steve Dimse <k4hg@tapr.org> wrote:
>>
>> >On 12/16/99 1:08 AM Jim Wagner (wagnerj@proaxis.com) wrote:
>> >
>> >>The earlier paragraph about Position Ambiguity really solves that
>> problem.
>> >>This is, after all, a situation of nearly-infinite ambiguity. Thus, the
>> >>format
>> >>
>> >>" . N" and " . W" (that is, spaces in all position digits)
>> >>
>> >>is perfectly logical. And, there is no chance of mis-interpreting it as
>> a
>> >>position.
>> >>
>> >The problem is that this need to be converted to a number for internal
>> >representation. I doubt very many of present implementations could
>> handle
>> >this at all.
>>
>> Clearly any device forwarding a position must handle the following
>> things in some consistent way
>>
>> 07201.7_W represents longitude to nearest 1/10th of a minute.
>> 07201.___W represents longitude to nearest minute.
>> 0720.___W represents longitude to nearest 10 minutes.
>> 072__.___W represents longitude to nearest degree.
>>
>> where _ represent the space character. It is clearly wrong to receive
>> a position of 072__.___W and forward it as 07200.00W, so either the
>> ASCII string must be stored and forwarded or some other means must be
>> used the number of digits used.
>>
>> >Many products out there are already using 0N 0W as the null,
>> >keep in mind that this version represents APRS as it is.
>>
>> What should the receiving application do with an invalid coordinate
>> that somehow (eg. manually), has been entered into the system.
>>
>> What should the application do with 9999.99N ? IMHO, this is a much
>> better null coordinate than 0000.00N/00000.00W, which would remove any
>> ambiguity with a real position and a null position.
>>

```

```

>>
>> >Finally, why 0N 0W is indeed a real point, it is not a very interesting
>> >one from an APRS standpoint. It is highly unlikely that anyone running
>> >APRS will ever be there, and even if they tried to anchor directly on
the
>> >point, normal GPS dithering would result in only a tiny percentage of
>> >their posits actually being 0.000000N 0.000000E.
>>
>> At the equator one minute would represent one nautical mile in both
>> latitude and longitude. With the full .00 precision, that would be
>> about 19 m, which is comparable to the GPS precision when the SA is
>> turned off :-).
>>
>> Paul OH3LWR
>>
>>
>> ---
>> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
>> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>>
>>
>
>APRSdos REPLY/COMMENT:
>
>Reply mail addr:   wb4apr@amsat.org
>US mail address:   115 old Farm Ct, Glen Burnie, MD 21060
>See DAYTON97 HISTORY:   http://web.usna.navy.mil/~bruninga/dayton.html
>See Maryland APRS LIVE: http://web.usna.navy.mil/~bruninga/aprs.html
>See GPS on ANY radio:   http://www.tapr.org/tapr/html/mic-e.html
>
>
>---
>You are currently subscribed to aprsspec as: toms@inconnect.com
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>

```

```

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

```

```

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 14:42:22 1999
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA05545
    for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 14:42:19 -0600 (CST)
Mime-Version: 1.0
X-Sender: ksproul@email.rci.rutgers.edu

```

Message-Id: <LYR11589-55473-1999.12.16-14.57.09--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Thu, 16 Dec 1999 15:36:22 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Keith Sproul <ksproul@rci.rutgers.edu>  
Subject: [aprsspec] Re: Shelter Message  
Cc: aprsspec@lists.tapr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v042101e3b47efc0f8edf@[128.6.18.58]>  
<LYR11587-55470-1999.12.16-14.42.04--ksproul#rci.rutgers.edu@lists.tapr.or  
g>  
<LYR11587-55470-1999.12.16-14.42.04--ksproul#rci.rutgers.edu@lists.tapr.or  
g>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

They were 'tentively' defined, and the definition was NOT good enough to satisfy even a small group of people, so instead of wasting our time on something that was only partially defined, we left that out for a future version, since the ONLY thing that accepted it was WinAPRS/MacAPRS, and even that was only done as a test and wasn't even close to finished.

There are some major definitions of what NEEDS to be in the data, but other than some examples that sort-of worked, not much else was completed..

I will be looking for people to help on this as time progresses..  
This will be done through the official WG, allowing many people to have input..

Keith Sproul

>At the DCC 1999, Keith Sproul mentioned that the Shelter data formats are  
>defined, just not implemented. I have searched the spec, but did not see a  
>reference to the message format. If it is not in a current program, I assume  
>it does not go in the spec?

>

>If there is a working format, it would be helpful for on-going development  
>efforts rather than define a new one.

>

>Thanks,

>  
>Tom NY4I

Keith Sproul ksproul@rci.rutgers.edu WU2Z  
Student Housing Network Coordinator 732 445-3695 W  
Rutgers University Computing Services 732 821-4828 H

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 14:59:04 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA06095  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 14:59:03 -0600 (CST)  
Message-ID: <LYR11589-55476-1999.12.16-15.13.53--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Thu, 16 Dec 1999 20:55:23 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Opps, my apologies  
In-Reply-To: <LYR11659-55462-1999.12.16-13.23.28--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <QRmUHAA7GVW4Ew6s@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-55462-1999.12.16-13.23.28--ian#dowrmain.demon.co.uk@lists.tapr.org>, Bill Cleveland <billc@zebra.net> writes

>If I write a software implementation of APRS and I chose to support V.1.0.0  
>of the APRS protocol, I could use APV100 to identify my software  
>implementation as being APRS V.1.0.0 compliant.  
>

In principle, yes. If your software is really in \*full\* compliance with 1.0.0 then you could conceive of using something like APV100.

But in practice it is very \*unlikely\* that individual software or firmware

implementations will ever be in \*full\* compliance with the spec (hardware restrictions may even constrain the implementation to a subset of the spec). The current authors may prove me wrong, but I don't think any of their implementations \*fully\* comply today. In that case they could not use APV100, so what would they use in its place?

That is why the current scheme of software version number is more meaningful, and potentially helpful with debugging when things go wrong, especially when looking at rogue packets many thousands of miles away!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 16 15:12:49 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA06435  
for <lyris.aprsspec@tapr.org>; Thu, 16 Dec 1999 15:12:48 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-55477-1999.12.16-15.27.31--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Thu, 16 Dec 1999 16:14:20 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Default Null Position  
References: <LYR11601-55449-1999.12.16-11.15.50--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>



X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <3859562B.DF5CACD@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

This conversation reminds me of high school chemistry class:

"But teacher, my gram scale{that I just dropped on the floor}  
does say 5.89746258304620398462gm so it still must be right  
to the 20th place"

Knowing the level of precision (or ambiguity) was a key part in  
getting a good grade in my chemistry class. In navigation it  
can be the difference between life and death.

Steve Dimse wrote:

> On 12/16/99 10:05 AM Paul Keinanen (keinanen@sci.fi) wrote:  
>  
>  
> >Clearly any device forwarding a position must handle the following  
> >things in some consistent way  
> >  
> >07201.7\_W represents longitude to nearest 1/10th of a minute.  
> >07201.\_\_W represents longitude to nearest minute.  
> >0720\_\_.\_\_W represents longitude to nearest 10 minutes.  
> >072\_\_.\_\_W represents longitude to nearest degree.  
> >  
> >where \_ represent the space character. It is clearly wrong to receive  
> >a position of 072\_\_.\_\_W and forward it as 07200.00W, so either the  
> >ASCII string must be stored and forwarded or some other means must be  
> >used the number of digits used.

EXACTLY. You have to represent the degree of precision that the sensor  
reports. And you MUST NOT increase its accuracy as clearly this leads  
to increasingly inaccurate results farther down the line

> Well, this has been a MAJOR point of contention between Bob and myself  
> over the last year. I am completely unconvinced that there is a need for  
> ambiguity in the first place.

Some navigation sensors are better then others, and give a more precise  
result. Such as GPS vs. DGPS vs. Loran vs. dead reckoning (and more). So  
quite clearly, as each of these has varying levels of "preciseness" there  
exists the need for a ambiguity reporting in any system that can use these.  
This is navigation 101 stuff people. Bob knows what he is talking about.

Also, getting into something a little bit more obscure (but equally important) KNOWING the level of ambiguity is a KEY factor in doing any kind of sensor fusion (such as Kamin filtering).

> What we finally decided after an great deal  
> of arguing is we would place it into the protocol, but it is up to the  
> individual programmer on if, and how, to handle the ambiguity.

At a end user display terminal, with ABSOLUTELY NO CHANCE of passing the munged data on, then this is fine. But if the station, or application can pass this data on, it must retain the level of precision (ambiguity) of the data. To actually change the data by removing the level of precision should be one of the "thou shall nots" of the APRS SPEC.

> All my software treats 072\_\_.\_W as 72.0000, and will continue to.

As long as your not passing this on to another station, then this is fine. I'd strongly suggest a visible warning in your program that indicates you are munging the data in such a manner. I'm not sure what you are developing, but if it is ever used for navigation, and a accident results from this (undisclosed) munging of the data, there could be ramifications.

But the APRS-WG must not allow certifications of programs that increase the level of precision and \*then\* pass the data on to another station at a reduced level of ambiguity (Such as passing on 072\_\_.\_W as 72.0000). This is completely unacceptable in any type of navigation or avl system.

-Jeff

P.S.

FYI (regarding coordinates 0.00, 0.00):

> Yes, and SA has not been turned off since the Gulf war for an significant  
> length of time. It is about 350 miles from the nearest land, too far for  
> DGPS.

There are more ways for DGPS then just the coast guard long wave stations. The OmniStar ASAT satellite does cover this area. See:

<http://www.omnistar.com/region.html>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 16 15:16:19 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA06492  
for <lyris.aprsspec@tappr.org>; Thu, 16 Dec 1999 15:16:16 -0600 (CST)  
Message-Id: <LYR11589-55479-1999.12.16-15.31.02--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: Opps, my apologies  
Date: Thu, 16 Dec 1999 15:12:42 -0600  
x-sender: sdimse@earthlink.net  
From: Steve Dimse <k4hg@tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <199912162112.NAA28298@gull.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On 12/16/99 3:06 PM Bill Cleveland ([billc@zebra.net](mailto:billc@zebra.net)) wrote:

>----- Original Message -----

>From: Steve Dimse <k4hg@tappr.org>

>

>> I guess I'm not clear on your planned usage of this. These codes are  
>> reserved for specific software and hardware implementations of the  
>> protocol.

>

>My planned usage for this is to act as a general indicator of what protocol  
>version is in use by a client. APV101 would indicate APRS protocol ver.  
>1.0.1 is being used. I still think assigning a specific code to each  
>individual software/hardware implementation isn't as useful as tagging the  
>protocol being used.

>

>If I write a software implementation of APRS and I chose to support V.1.0.0  
>of the APRS protocol, I could use APV100 to identify my software  
>implementation as being APRS V.1.0.0 compliant.

>

This is not what the field is intended for. You have no idea how  
frustrating it is to have someone send you a message saying "the packet  
from WZ9ZZZ isn't decoded by your program", and then to go dig out a  
packet from that station, see it is incorrectly formed, and have no idea

which program sent it.

This is why the author/manufacturer field is there. It is very much appreciated by those of us that need to troubleshoot the system, and needs to remain in place.

And once again, Version 1.0 of the protocol documents what is in place today...

>> While the APRSWG hasn't specifically addressed the mechanics of handing  
>these out, ...

>

>How can you open a protocol to public comment, and not have any plans in  
>place to act on them?

>

This isn't a difficult question, we are handling much tougher ones first. My proposal is to have a new author submit a request, and unless it is in conflict changes. When any new version of the protocol doc is produced for another reason, the changes are included. In other words, no need to re-issue the protocol every time a new code is assigned. Just my opinion, what the group decides to do may differ...

>> I suspect we will want to wait until someone has a  
>> program or device ready for on-air testing, since we have a limited  
>> number of available codes.

>

>What if I start using APV at my site, lets say within the next 2 days?

>

If you have a piece of software read to go on the air in two days, let us know the name of the program and a little something about it. This would cause us to bump the issue up in priority and settle the assignment issue now. Otherwise, it will wait for tougher things to be settled first, or for someone else to need an ID in the short term.

Or perhaps the question referred to civil disobedience, so-to-speak, of not getting a code issued first? The APRS protocol is a voluntary document. All the members of the APRS WG are committed to working with new authors to make sure their software is compatible with what we have in use already. If you want to ignore the resources that are offered you, there are no repercussions contemplated, though it would be a shame...

Steve K4HG

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Thu Dec 16 15:19:48 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA06591  
for <lyris.aprsspec@tappr.org>; Thu, 16 Dec 1999 15:19:47 -0600 (CST)  
From: Charles Suprin <csuprin@lynx.dac.neu.edu>  
Message-Id: <LYR11589-55481-1999.12.16-15.34.33--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Subject: [aprsspec] Re: Opps, my apologies  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Date: Thu, 16 Dec 1999 16:19:32 -0500 (EST)  
Cc: aprsspec@lists.tappr.org  
Reply-To: csuprin@lynx.dac.neu.edu  
In-Reply-To: <LYR13478-55476-1999.12.16-15.13.53--  
csuprin#lynx.neu.edu@lists.tappr.org> from "Ian Wade" at Dec 16, 99 08:55:23 pm  
MIME-Version: 1.0  
Content-Type: text/plain; charset=US-ASCII  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <199912162119.QAA22989@lynx02.dac.neu.edu>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Ian,

I mention this in one of my other posts. but it may have gotten lost.

It is possible to write the spec in such a way that many of the features can be unimplemented and a product could be compliant. For instance if a particular implementation of the standard only transmitted one type of packet then that type of packet must be one of the types listed in the document. However an implementation should support at minimum the direct message packets and a location type packet.

In trying to keep this away from a Dr. Spock type document, some of the technical administtrivia is failing to be addressed.

The standard should be written such that every represented APRS implementation is "APRS 1.0.0 Compliant".

Charles

>

> In article <LYR11659-55462-1999.12.16-13.23.28--ian#dowrmain.demon.co.uk@lis  
> ts.tappr.org>, Bill Cleveland <billc@zebra.net> writes

>  
>  
> >If I write a software implementation of APRS and I chose to support V.1.0.0  
> >of the APRS protocol, I could use APV100 to identify my software  
> >implementation as being APRS V.1.0.0 compliant.  
> >  
>  
> In principle, yes. If your software is really in \*full\* compliance with  
> 1.0.0 then you could conceive of using something like APV100.  
>  
> But in practice it is very \*unlikely\* that individual software or firmware  
> implementations will ever be in \*full\* compliance with the spec (hardware  
> restrictions may even constrain the implementation to a subset of the spec).  
> The current authors may prove me wrong, but I don't think any of their  
> implementations \*fully\* comply today. In that case they could not use  
> APV100, so what would they use in its place?  
>  
> That is why the current scheme of software version number is more  
> meaningful, and potentially helpful with debugging when things go wrong,  
> especially when looking at rogue packets many thousands of miles away!  
>  
> 73  
> Ian, G3NRW  
> Technical Editor, APRS Protocol Specification  
>  
> --  
> +-----+  
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
> | email: g3nrw@arrl.net |  
> | |  
> | APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
> +-----+  
>  
> ---  
> You are currently subscribed to aprsspec as: csuprin@lynx.neu.edu  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org  
>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 00:52:19 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA28725  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 00:52:09 -0600 (CST)

X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55585-1999.12.17-01.06.50--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 16 Dec 1999 23:51:36 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Conflict with WIDEn-N & Third Party Digipeating  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b47f8bddd6e0@[198.106.196.226]>  
<LYR11893-55394-1999.12.16-00.00.13--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello -

I have just noticed what appears to be an oversight concerning Third Party Digipeating packet reformulation and the operation of WIDEn-N digis.

On page 67, last paragraph, it is noted:

Any digipeaters following the callsign of the station from which the packet was heard are termed "unused". These unused digipeaters are stripped out when building a Third-Party Header.

When a packet is received direct from a WIDEn-N digi, there is no "\*" to signify from which digi it has been heard. The only rule I can think of is to assume the LAST digi in a WIDEn-N chain if there is no subsequent digi marked with an asterisk. In our area (Oregon south of Portland), we get lots of packets from British Columbia with no asterisk!

Am I wrong or is there a better way?

Thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 02:21:48 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA00516  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 02:21:45 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Default Null Position  
Date: Fri, 17 Dec 1999 10:22:43 +0200  
Message-ID: <LYR11589-55592-1999.12.17-02.36.22--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR13206-55449-1999.12.16-11.15.50--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
In-Reply-To: <LYR13206-55449-1999.12.16-11.15.50--  
Paul.Keinanen#sci.fi@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <bisj5sk52g93e17v0poapg8fmtrpr7rr6j@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 16 Dec 1999 10:59:22 -0600, Steve Dimse <k4hg@tapr.org> wrote:

>On 12/16/99 10:05 AM Paul Keinanen (keinanen@sci.fi) wrote:

>>What should the receiving application do with an invalid coordinate  
>>that somehow (eg. manually), has been entered into the system.

When APRS1.0 specification is not intended to be a RFC style document,  
some inexperienced programs might not think about the possibility of  
illegal values in some data fields, thus I think it would be a good  
thing to say in the document what to do in that situation e.g. crash  
the program (hopefully not) or handle it as a default null position



(whatever that is now or in the future).

>>What should the application do with 9999.99N ? IMHO, this is a much  
>>better null coordinate than 0000.00N/00000.00W, which would remove any  
>>ambiguity with a real position and a null position.  
>>  
>This is not an option. It is impossible in the Mic-E algorithm to specify  
>this position.

I must have missed something, since my interpretation is that the latitude is transmitted in the destination address as six BCD digits, thus, I do not see a problem of representing 9999.99N or 9959.99N. In fact in the third BCD digit (tens of minutes) the MSB is always 0, since that digit can only vary from 0 to 5, thus three bits would be sufficient :-).

It would have been a simple thing to encode the uncertainty in the less significant digits by using an invalid BCD digit e.g. the binary combination 1010 (ten) to indicate unavailable data, but unfortunately no-one seem to have thought about this when the Mic-E specification was initially designed.

>Yes, and SA has not been turned off since the Gulf war for an significant  
>length of time.

Is the US going to keep the SA on forever in the future ?

And besides there are other existing and planned satnav systems that are not using SA even if the US keeps it on the GPS system.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 04:17:17 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA13063  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 17 Dec 1999 04:17:15 -0600 (CST)  
Message-ID: <LYR11589-55595-1999.12.17-04.32.07--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
From: "Steve Sampson" <[ssampson@usa-site.net](mailto:ssampson@usa-site.net)>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Default Null Position  
Date: Fri, 17 Dec 1999 04:16:45 -0600  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <000601bf4877\$d2b74f00\$98228cd1@dodge.spacewar.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

The default null position is of no consequence in Version 1.0.  
You will have to expand your algorithm a bit to note moving  
objects passing through the point. Otherwise mask the object.

In version 2.0 it can be done correctly, as I would hope it would  
be a binary protocol, rather than a character protocol.

There have been zero (null) Hams going to that point and operating  
Ham radio since APRS day 1, and none are projected. Why should  
we care now? Sure it could be designed better, and should, but not  
in this version: It's so small an issue that yawning is appropriate...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 17 07:38:19 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA17371  
for <lyris.aprsspec@tappr.org>; Fri, 17 Dec 1999 07:38:13 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Fri, 17 Dec 1999 08:37:23 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: Conflict with WIDEn-N & Third Party Digipeating  
In-Reply-To: <LYR11586-55585-1999.12.17-01.06.50--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55610-1999.12.17-07.52.58--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912170832020.25116-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Thu, 16 Dec 1999, Jim Wagner wrote:

> I have just noticed what appears to be an oversight concerning Third Party  
> Digipeating packet reformulation and the operation of WIDEn-N digis.  
>  
> On page 67, last paragraph, it is noted:  
>  
> Any digipeaters following the callsign of the station from which the packet  
> was heard are termed "unused". These unused digipeaters are stripped out  
> when building a Third-Party Header.  
>  
> When a packet is received direct from a WIDEn-N digi, there is no "\*" to  
> signify from which digi it has been heard.

Good point Jim. You are correct since WIDEn-N propagates with the  
has-been-digipeated bit NOT set until it gets to 0. Hummh....

OK, but since the only call in that stream that will show a "\*" it the one  
prior to the WIDEn-N, then it will usually, if not always, be the  
originating digipeater. And that originating digipeater is probably the  
most useful piece of information available to identify where the packet  
came from. So far, no one has used any of this path information.

My first reaction is to leave it be. Or at least until we have an idea  
of what good it would do to work up a work-around..... But you have  
identified a small "quirk" that should not be overlooked in the future if  
we do use this path info...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 07:55:23 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA17692  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 07:55:21 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Fri, 17 Dec 1999 08:54:39 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Default Null Position  
In-Reply-To: <LYR11586-55592-1999.12.17-02.36.22--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55618-1999.12.17-08.10.12--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912170852500.25116-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 17 Dec 1999, Paul Keinanen wrote:

> It would have been a simple thing to encode the uncertainty in the  
> less significant digits by using an invalid BCD digit e.g. the binary  
> combination 1010 (ten) to indicate unavailable data, but unfortunately  
> no-one seem to have thought about this when the Mic-E specification  
> was initially designed.

That is EXACTLY what we did. The SPACE character... in conventional  
APRS formatted LAT/LONGS and a shifted ALPHABET in the Mic-E...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 17 10:22:55 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA22273  
for <lyris.aprsspec@tappr.org>; Fri, 17 Dec 1999 10:22:52 -0600 (CST)  
Message-ID: <LYR11589-55639-1999.12.17-10.37.40--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
Date: Fri, 17 Dec 1999 15:43:13 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: Conflict with WIDEn-N & Third Party Digipeating  
References: <LYR11586-55585-1999.12.17-01.06.50--  
bruninga@nadn.navy.mil@lists.tappr.org>  
<LYR13460-55610-1999.12.17-07.52.58--roger@peaksys.co.uk@lists.tappr.org>  
In-Reply-To: <LYR13460-55610-1999.12.17-07.52.58--  
roger@peaksys.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <R4m3wRARolW4Ew45@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR13460-55610-1999.12.17-07.52.58--roger@peaksys.co.uk@lists.tappr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes  
>On Thu, 16 Dec 1999, Jim Wagner wrote:  
>  
>> I have just noticed what appears to be an oversight concerning Third Party  
>> Digipeating packet reformulation and the operation of WIDEn-N digis.  
>>  
>> On page 67, last paragraph, it is noted:  
>>  
>> Any digipeaters following the callsign of the station from which the packet  
>> was heard are termed "unused". These unused digipeaters are stripped out  
>> when building a Third-Party Header.  
>>  
>> When a packet is received direct from a WIDEn-N digi, there is no "\*" to  
>> signify from which digi it has been heard.  
>  
>Good point Jim. You are correct since WIDEn-N propagates with the  
>has-been-digipeated bit NOT set until it gets to 0. Hummh....

If you assume that WIDEm-n has been used if 'n' is less than 'm', the only situation in which you will be wrong is if someone originates a

frame with something like WIDE7-5.

--

Roger Barker, G4IDE   roger@peaksys.co.uk  
Boston, UK           http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Fri Dec 17 14:33:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29411  
      for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 14:32:58 -0600 (CST)  
Date: Fri, 17 Dec 1999 12:32:39 -0800 (PST)  
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Conflict with WIDEn-N & Third Party Digipeating  
In-Reply-To: <LYR12892-55610-1999.12.17-07.52.58--  
hacker#tc.fluke.com@lists.tapr.org>  
Message-ID: <LYR11589-55677-1999.12.17-14.47.47--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Organization: Fluke Corporation  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.10.9912171227290.24374-1000000@dogbert.tc.fluke.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 17 Dec 1999, Bob Bruninga wrote:

> On Thu, 16 Dec 1999, Jim Wagner wrote:  
>  
> > When a packet is received direct from a WIDEn-N digi, there is no "\*" to  
> > signify from which digi it has been heard.  
>  
> Good point Jim. You are correct since WIDEn-N propagates with the  
> has-been-digipeated bit NOT set until it gets to 0. Hummh....

This (no asterisk) should only occur when the originating station is within  
direct reach of a WIDEn-N digi, and so doesn't need a RELAY or other station  
before the WIDEn-N in the path, correct? Then the only time you'd see ANY

asterisk is when you get to the last digi.

If there's a RELAY or other digi call before the WIDEn-N, then the asterisk would appear by that station's callsign until you get to the last WIDEn-N digi, correct?

Just making sure I understand.

Curt Mills, WE7U hacker.NO\_\*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 15:15:05 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00770

for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 15:15:02 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Fri, 17 Dec 1999 16:14:05 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Conflict with WIDEn-N & Third Party Digipeating

In-Reply-To: <LYR11586-55677-1999.12.17-14.47.47--

bruninga#nadn.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-55680-1999.12.17-15.29.53--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.05L.9912171612310.25031-1000000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Fri, 17 Dec 1999, Curt Mills, WE7U wrote:

> On Fri, 17 Dec 1999, Bob Bruninga wrote:

>  
> > On Thu, 16 Dec 1999, Jim Wagner wrote:  
> >  
> > > When a packet is received direct from a WIDEn-N digi, there is no "\*" to  
> > > signify from which digi it has been heard.  
> >  
> > Good point Jim. You are correct since WIDEn-N propagates with the  
> > has-been-digipeated bit NOT set until it gets to 0. Hummh....  
>  
> This (no asterisk) should only occur when the originating station is within  
> direct reach of a WIDEn-N digi, and so doesn't need a RELAY or other station  
> before the WIDEn-N in the path, correct? Then the only time you'd see ANY  
> asterisk is when you get to the last digi.  
>  
> If there's a RELAY or other digi call before the WIDEn-N, then the asterisk  
> would appear by that station's callsign until you get to the last WIDEn-N  
> digi, correct?

I dont think so. Some digi will always hear the RELAY first, so it will  
(and must) always be digipeated by that call first. Thus, it will always  
have the RELAY\*,WIDEN-N or callsing substituted DIGI\*,WIDEn-N....  
Unless you hear the originator direct. then you will see one packet with  
no stars....

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 17:07:21 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04175  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 17:07:17 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-55687-1999.12.17-17.22.04--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 17 Dec 1999 18:09:36 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Position Ambiguity and Mr. Spock  
References: <LYR11601-55449-1999.12.16-11.15.50--jeff#aerodata.net@lists.tapr.org>



<LYR11601-55477-1999.12.16-15.27.31--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <385AC2B0.9E4CFC85@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Jeff King wrote:

> Some navigation sensors are better then others, and give a more precise  
> result. Such as GPS vs. DGPS vs. Loran vs. dead reckoning (and more). So  
> quite clearly, as each of these has varying levels of "preciseness" there  
> exists the need for a ambiguity reporting in any system that can use these.  
> This is navigation 101 stuff people. Bob knows what he is talking about.  
>  
> Also, getting into something a little bit more obscure (but equally important)  
> KNOWING the level of ambiguity is a KEY factor in doing any kind  
> of sensor fusion (such as Kamin filtering).

Actually, this is not at all obscure, now that I think of it. One excellent use of APRS is for coordinated automated direction finding. That is, both mobiles and bases can DF a transmitter, and share their bearing, location and signal strength. Since this data is being shared, it is CRITICAL that each program not put there own spin on it.

A particular

yagi has a different degree of precision then a doppler. A base station has a different degree of precision then a mobile (maybe the base station used SA watch to survey there location?), or maybe the mobile doesn't even has a GPS, and is just entering street coordinates of there latest fix. And what about the bearing tools? Are they guessing it by eye or are they using a fluxgate compass with +- %5 accuracy?

Since all the data can be shared with other stations in coming up with a DF fix solution, it is important that the level of ambiguity be shared. For any certified APRS application, it is critical that the particular author does not have free rein to munge the data as they see fit.

-Jeff

>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 17:12:29 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04318  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 17:12:28 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-55688-1999.12.17-17.27.19--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 17 Dec 1999 18:14:58 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Omission: Position ambiguity munging rules  
References: <LYR11601-55449-1999.12.16-11.15.50--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <385AC3F2.DE04E65B@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

It is claimed the WG agreed to allow the authors to munge  
position ambiguity any way they see fit. Since their public silence  
on this issue seems not impugn this, can we assume this is true?  
I cannot find any position ambiguity munging rules in the present  
APRS-SPEC document.

These munging rules need to be in the document if the statement  
below is true, and most certainly need to be part of the certification  
process.

-Jeff

> >07201.7\_W represents longitude to nearest 1/10th of a minute.  
 > >07201.\_\_\_W represents longitude to nearest minute.  
 > >0720.\_\_\_W represents longitude to nearest 10 minutes.  
 > >072\_\_\_W represents longitude to nearest degree.  
 > >  
 > >where \_ represent the space character. It is clearly wrong to receive  
 > >a position of 072\_\_\_W and forward it as 07200.00W, so either the  
 > >ASCII string must be stored and forwarded or some other means must be  
 > >used the number of digits used.  
 > >  
 > Well, this has been a MAJOR point of contention between Bob and myself  
 > over the last year. I am completely unconvinced that there is a need for  
 > ambiguity in the first place. What we finally decided after an great deal  
 > of arguing is we would place it into the protocol, but it is up to the  
 > individual programmer on if, and how, to handle the ambiguity.

>  
 >  
 > All my software treats 072\_\_\_W as 72.00000, and will continue to. I do  
 > not find any display method yet proposed satisfactory for conveying  
 > ambiguity...I do not like stations simply disappearing as you zoom in on  
 > a map, and using circles or squares results in a clutter map and is  
 > difficult to associate a particular callsign with a zone of ambiguity.  
 > Finally, there is no way at all I could handle these on the map.aprs.net  
 > system.  
 >  
 > >>Many products out there are already using 0N 0W as the null,  
 > >>keep in mind that this version represents APRS as it is.  
 > >  
 > >What should the receiving application do with an invalid coordinate  
 > >that somehow (eg. manually), has been entered into the system.  
 > >  
 > >What should the application do with 9999.99N ? IMHO, this is a much  
 > >better null coordinate than 0000.00N/000000.00W, which would remove any  
 > >ambiguity with a real position and a null position.  
 > >  
 > This is not an option. It is impossible in the Mic-E algorithm to specify  
 > this position.  
 >  
 > >  
 > >>Finally, why 0N 0W is indeed a real point, it is not a very interesting  
 > >>one from an APRS standpoint. It is highly unlikely that anyone running  
 > >>APRS will ever be there, and even if they tried to anchor directly on the  
 > >>point, normal GPS dithering would result in only a tiny percentage of  
 > >>their posits actually being 0.0000000N 0.0000000E.

> >  
> >At the equator one minute would represent one nautical mile in both  
> >latitude and longitude. With the full .00 precision, that would be  
> >about 19 m, which is comparable to the GPS precision when the SA is  
> >turned off :-).  
> >  
> Yes, and SA has not been turned off since the Gulf war for an significant  
> length of time. It is about 350 miles from the nearest land, too far for  
> DGPS. So, in order for this to be a significant problem, you would need a  
> marine mobile APRS station deliberately keeping station within the 20  
> meter box at 0N 0W and SA being turned off. That's pretty close to my  
> definition of highly unlikely...  
>  
> Steve K4HG  
>  
> ---  
> You are currently subscribed to aprsspec as: jeff@aerodata.net  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 17 20:56:40 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA09538  
for <lyris.aprsspec@tapr.org>; Fri, 17 Dec 1999 20:56:40 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55701-1999.12.17-21.11.28--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 17 Dec 1999 19:56:20 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Parsing of Third Party Digipeated messages  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130304b480a744c3fc@[198.106.196.106]>  
<LYR11893-55566-1999.12.17-00.00.12--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello group

The description on pages 67, 68, and 69 do a good job of describing how a tunneled message is parsed at the gateways. But, it says nothing about how it should be parsed at the receiving station.

When I look at the rough draft, it does just the opposite, describing how it should be parsed at the receiving end but not at the gateway.

Shouldn't the standard have both?? Its not obvious to me that the gateway spec is a sufficient description to determine what to do at the receive point.

Thanks

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org   Fri Dec 17 20:57:10 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA09610  
      for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 17 Dec 1999 20:57:10 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55702-1999.12.17-21.11.56--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 17 Dec 1999 19:56:38 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] More on Conflict with WIDEn-N & Third Party Digipeating  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130302b480a5123fe2@[198.106.196.106]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Dec 16, I posted a note about possible problems with Third Party  
Digipeating and WIDEn-N digipeaters.

Here are two use useful examples. The first is pretty normal and leaves  
little doubt in my mind what the "local" digi is. The second shows exactly  
what I was concerned about.

VE7DIE>APW240,N7IFJ-10\*,WIDE5:}VE6DJJ>APW228,TCPIP,VE7DIE\*:=5100.98N/11359.23W\_P  
HG3230/WinAPRS 2.2.8 -ABCANCALGARY -228-<530>

N7RIG-4>APRX44,WIDE5-2:}N7RIG-4>APRX44,WIDE5-4/V:}N7RIG-2>APRZIP,ZDIGI:>090209z  
Richard Seattle Wa. 72155.1222@compuserve.com

Can someone, anyone, tell me whether the second was heard direct or whether  
it was heard via WIDE5-2? If the packet was properly addressed (initially  
to WIDE5-5), then it was probably heard via WIDE5-2. But, I rather doubt it  
in this case because many, if not most, of the WIDEn-N digis between the  
originating area and the authors location can be heard directly at the  
author's QTH.

So, what is one to do????

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Fri Dec 17 23:47:48 1999

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA14913  
for <lyris.aprsspec@tappr.org>; Fri, 17 Dec 1999 23:47:46 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-55725-1999.12.18-00.02.28--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Fri, 17 Dec 1999 22:47:15 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Parsing Third Party Digipeated packets  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <l03130300b480ccde4b9f@[198.106.196.188]>  
<LYR11893-55566-1999.12.17-00.00.12--wagnerj#proaxis.com@lists.tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Hello, group...

In the absence of a formal description for parsing received Third Party packets, I have been trying to follow the description in the rough draft of the APRS protocol spec. I've run into a problem with the following packet:

```
K7IP-2>APS199,KSEA*,WIDE3:}KH2Z>APS199,TCPIP,K7IP-2*::SECTIG :etxt  
kh2z@arrl.net KH2*{951
```

The rough draft says: "To show that it has been carried by another station, the call of that station is extracted from the as-received header and inserted as a pseudo digi in the digi path."

Lets see, when you do that with the previous packet (and trim the unused part of the local digi path), you get:

```
K7IP-2>APS199,KSEA*,WIDE3:}KH2Z>APS199,TCPIP,K7IP-2,K7IP-2,KSEA*::SECTIG  
:etxt kh2z@arrl.net KH2*{951
```

Clearly, there is an error. There are two successive instances of the same call. Any of the following might be true:

1. The packet was incorrectly parsed at the gateway
2. The rough draft algorithm is incorrect
3. Some other error

Can someone illuminate?

In the absence of a formal receive decoding algorithm description in the protocol, this kind of stuff is going to continue being a question.

Thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 00:02:17 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA20864  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 00:02:16 -0600 (CST)  
Message-ID: <LYR11589-55727-1999.12.18-00.17.04--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
References: <LYR11585-55725-1999.12.18-00.02.28--  
bhildebrand#earthlink.net@lists.tapr.org>  
Subject: [aprsspec] Re: Parsing Third Party Digipeated packets  
Date: Fri, 17 Dec 1999 22:01:50 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>



X-Message-Id: <07ad01bf491d\$61041540\$4b93b3d1@celeron>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

- 1) you can not reconstruct the original packet path from 3rd party packets
- 2) the pseudo header in your example tells you that [1] KH2Z originated the message, [2] using APRS+SA, [3] heard via TCPIP, and [4] gated by K7IP-2.
- 3) The local header, K7IP-2>APS199,KSEA\*.WIDE3 only tells you the packet back to the IGate K7IP-2. Including this path with the header in the 3rd packet is wrong, and meaningless.
- 4) 3rd party format, as transmitted by an IGate, does not tell you how the original packet got into the Internet data stream, only that KH2Z was the originating station.
- 5) sending messages back is transparent. You only need to be assured that your signal gets back to your local IGate.

Brent KH2Z

```
> Hello, group...
>
> In the absence of a formal description for parsing received Third Party
> packets, I have been trying to follow the description in the rough draft
> of
> the APRS protocol spec. I've run into a problem with the following packet:
>
> K7IP-2>APS199,KSEA*,WIDE3:}KH2Z>APS199,TCPIP,K7IP-2*::SECTIG :etxt
> kh2z@arrl.net KH2*{951
>
> The rough draft says: "To show that it has been carried by another
> station,
> the call of that station is extracted from the as-received header and
> inserted as a pseudo digi in the digi path."
>
> Lets see, when you do that with the previous packet (and trim the unused
> part of the local digi path), you get:
>
> K7IP-2>APS199,KSEA*,WIDE3:}KH2Z>APS199,TCPIP,K7IP-2,K7IP-2,KSEA*::SECTIG
> :etxt kh2z@arrl.net KH2*{951
>
> Clearly, there is an error. There are two successive instances of the same
> call. Any of the following might be true:
>
> 1. The packet was incorrectly parsed at the gateway
> 2. The rough draft algorithm is incorrect
> 3. Some other error
>
> Can someone illuminate?
>
```

> In the absence of a formal receive decoding algorithm description in the  
> protocol, this kind of stuff is going to continue being a question.  
>  
> Thanks,  
>  
> Jim Wagner  
> Oregon Research Electronics  
> -----  
> wagnerj@proaxis.com                      Tangent, Oregon 97389  
> KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
> ka7ehk@yahoo.com                      Oregon State University  
> -----  
> A computer without Windows is like a cake without mustard. - anonymous  
>  
>  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org  
>  
>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Dec 18 03:47:21 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA04660  
for <lyris.aprsspec@tappr.org>; Sat, 18 Dec 1999 03:47:21 -0600 (CST)  
Message-ID: <LYR11589-55762-1999.12.18-04.02.12--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sat, 18 Dec 1999 09:45:13 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: More on Conflict with WIDEn-N & Third Party Digipeating  
References: <LYR13460-55702-1999.12.17-21.11.56--  
roger#peaksys.co.uk@lists.tappr.org>  
In-Reply-To: <LYR13460-55702-1999.12.17-21.11.56--  
roger#peaksys.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <ioY7UGApe1W4Ew+i@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR13460-55702-1999.12.17-21.11.56--roger#peaksys.co.uk@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes  
>On Dec 16, I posted a note about possible problems with Third Party  
>Digipeating and WIDEn-N digipeaters.  
>  
>Here are two use useful examples. The first is pretty normal and leaves  
>little doubt in my mind what the "local" digi is. The second shows exactly  
>what I was concerned about.  
>  
>VE7DIE>APW240,N7IFJ-10\*,WIDE5:{VE6DJJ>APW228,TCPIP,VE7DIE\*:=5100.98N/11359.23W\_  
>P  
>HG3230/WinAPRS 2.2.8 -ABCANALGARY -228-<530>

If that is off air, and the TNC you are using outputs decoded frame headers in "TNC2" format, i.e. the '\*' is put against the last digi with the 'H' bit set (equivalent to putting it against the digi you heard it from), then it must have originated as:-

VE7DIE>APW240,N7IFJ-10,WIDE5:

And the WIDE5 would appear to me to be redundant.

>N7RIG-4>APRX44,WIDE5-2:{N7RIG-4>APRX44,WIDE5-4/V:{N7RIG-2>APRZIP,ZDIGI:>090209z  
>Richard Seattle Wa. 72155.1222@compuserve.com  
>  
>Can someone, anyone, tell me whether the second was heard direct or whether  
>it was heard via WIDE5-2? If the packet was properly addressed (initially  
>to WIDE5-5), then it was probably heard via WIDE5-2.

If the packet was properly addressed (started off as WIDE5-5) then it was \*definitely\* heard from WIDE5-2.

> But, I rather doubt it  
>in this case because many, if not most, of the WIDEn-N digis between the  
>originating area and the authors location can be heard directly at the  
>author's QTH.  
>  
>So, what is one to do????

I would say:-

- (a) Educate the users in how WIDEn-n should be used.
- (b) Assume that it has been used if the second 'n' is less than the

first.

Possibly off topic, but just to throw in another slight complication, the spec describes only two different formats of decoded frame headers - TNC2 and PK-232 (which shows what a sheltered life you folks over there lead! ;-). There are others! If your first example had come from a system using BPQ host mode (very popular in the UK), then it would have to be interpreted as having been heard via a used up WIDE5-5, because the '\*' in BPQ decoded frame headers simply indicates that the address 'H' bit is set, so a frame header that has gone through three digis would be decoded as:-

G4IDE>APRS,DIGI1\*,DIGI2\*,DIGI3\*,DIGI4,etc...

Finally, a question - when WIDEn-n counts down to an SSID of '0', should the digi that outputs the frame with WIDE5(-0) set the 'H' bit? I think it should, but I also don't think that all implementations of WIDEn-n do. (Same applies to TRACEn-n.) So, should WIDE5, or WIDE5\*, or both, be regarded as a used up WIDE5-5?

--

Roger Barker, G4IDE   roger@peaksys.co.uk  
Boston, UK           http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 09:02:25 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10046  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 09:02:24 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 18 Dec 1999 10:01:58 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] DF Quality/Ambiguity Sectors?  
In-Reply-To: <LYR11586-55687-1999.12.17-17.22.04--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55781-1999.12.18-09.17.15--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912180957240.26707-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 17 Dec 1999, Jeff King wrote:

> > Some navigation sensors are better then others, and give a more precise  
> > result. Such as GPS vs. DGPS vs. Loran vs. dead reckoning (and more). So  
> > quite clearly, as each of these has varying levels of "preciseness" there  
> > exists the need for a ambiguity reporting in any system that can use these.  
> > This is navigation 101 stuff people. Bob knows what he is talking about.  
>  
> Actually, this is not at all obscure, now that I think of it. One excellent  
> use of APRS is for coordinated automated direction finding. That is,  
> both mobiles and bases can DF a transmitter, and share their bearing,  
> location and signal strength. Since this data is being shared, it is  
> CRITICAL that each program not put there own spin on it.

Yep, thats why I included the Quality factor in the DF bearing info. A  
quality factor of 8 implies a very narrow accuracy, where as a quality  
factor of 4 might mean a 45 degree precision, and a quality of 1 might  
mean +/- 90 deg. Actually, the graphics in APRSdos did not make it easy  
for me to translate these into ambiguity sectors, but that was the  
intent... Hummh... Maybe for the future, we should equate these DF  
quality factors in to specific ambiguity wedges?

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 09:25:45 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10792  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 09:25:42 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 18 Dec 1999 10:24:43 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: More on Conflict with WIDEn-N & Third Party Digipeating  
In-Reply-To: <LYR11586-55702-1999.12.17-21.11.56--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55783-1999.12.18-09.40.32--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912181011170.26707-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 17 Dec 1999, Jim Wagner wrote:

> VE7DIE>APW240,N7IFJ-10\*,WIDE5:}VE6DJJ>APW228,TCPIP,VE7DIE\*:=5100.98N/11359.23W\_P  
> HG3230/WinAPRS 2.2.8 -ABCANCALGARY -228-<530>  
>  
> N7RIG-4>APRX44,WIDE5-2:}N7RIG-4>APRX44,WIDE5-4/V:}N7RIG-2>APRZIP,ZDIGI:>090209z  
> Richard Seattle Wa. 72155.1222@compuserve.com  
>  
> Can someone, anyone, tell me whether the second was heard direct or whether  
> it was heard via WIDE5-2?  
<snip>>  
> So, what is one to do????

Good question. Lets try this answer (discussion) and see what everyone thinks???

\* APRS doesnt care how a packet gets somewhere. It was designed to assume a flooding network where everyone involved in a NET, Emergency, EVENT or whatever, is responsible to choose an OUTGOING path to hit all other stations in that "NET, EVENT" Emergency".

\* This works, and will always work at the "scene" and in an "area" of interest.

\*\*\* Problem is, everyone coming on board now sees the state-wide, nation-wide, world-wide APRS network as a means of communicating anywhere and everywhere. Yes, it can be done. But it will get harder and harder.

\*\*\* Even as this "global" nature of APRS grows, we have always said that growth will be handled exactly like cellular, we make the cells smaller so that they can always accomidate a finite number of users within that cell.

\*\*\* This is why I keep saying that the only important PATH info is the "originating" digipeater. From that alone, we should always be able to figure out how to get back to that person.

\*\*\* WIDEn-n vastly improves network efficiency at the expense of lost path info. (at least n-N can tell you the number of hops)... But again, WIDEn-N is only a means of allowing geographically disperse users in a very large area to communicate in APRS where otherwise, there would not have been a critical mass of users to justify its use.... BUT THIS IS NOT what APRS was designed for...

So, simple answer (but controversial) to Jim's question might be "who cares"? Are we trying to build and maintain a 5 hop system, or are we going to remain focused on the one hop (maybe 2) real time "event" scenario?

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 09:49:58 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11763  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 09:49:55 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 18 Dec 1999 10:49:13 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: More on Conflict with WIDEn-N & Third Party Digipeating  
In-Reply-To: <LYR11586-55762-1999.12.18-04.02.12--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-55786-1999.12.18-10.04.48--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912181048160.26707-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sat, 18 Dec 1999, Roger Barker wrote:

> Finally, a question - when WIDEn-n counts down to an SSID of '0', should  
> the digi that outputs the frame with WIDE5(-0) set the 'H' bit? I think  
> it should, but I also don't think that all implementations of WIDEn-n  
> do. (Same applies to TRACEn-n.) So, should WIDE5, or WIDE5\*, or both, be  
> regarded as a used up WIDE5-5?

k

When Kantronics was implementing it, that is what I told them to do... I  
don't know if they did it that way or not. Not enough WIDEn's in my area  
to test....

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 10:56:50 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA13464  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 10:56:50 -0600 (CST)  
Message-Id: <LYR11589-55791-1999.12.18-11.11.43--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Subject: [aprsspec] Re: Omission: Position ambiguity munging rules  
Date: Sat, 18 Dec 1999 10:56:24 -0600  
x-sender: sdimse@earthlink.net  
From: Steve Dimse <k4hg@tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912181656.IAA01368@avocet.prod.itd.earthlink.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On 12/17/99 5:14 PM Jeff King (jeff@aerodata.net) wrote:



>  
>It is claimed the WG agreed to allow the authors to munge  
>position ambiguity any way they see fit. Since their public silence  
>on this issue seems not impugn this, can we assume this is true?  
>I cannot find any position ambiguity munging rules in the present  
>APRS-SPEC document.  
>  
>These munging rules need to be in the document if the statement  
>below is true, and most certainly need to be part of the certification  
>process.  
>  
Don't know what you mean by munging...that generally implies changing  
something. This situation is simply ignoring the ambiguity, so I would  
not choose that term.

Position ambiguity is in the spec. All programs need to handle position  
reports containing this data format. The spec does not contain  
information about how this, or most other things, are to be displayed by  
individual programs. My opinion was that this document should contain no  
requirements on how things should be displayed by client programs. For  
example, the range omission Bob posted the other day...there may be a  
need for documentation of things like this, but my opinion is they belong  
in a separate document, just as the Internet info should be a separate  
document. However, some of them crept into the spec, I do not have the  
time or energy to fight all these battles.

However, ambiguity is one I feel very strongly about. I am completely  
unconvinced of the need for it, and even if I were, no one has  
demonstrated to me a method of adequately conveying it in any program,  
much less one that can be successfully implemented in all APRS displays.

Steve K4HG

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 13:54:44 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA18453  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 13:54:39 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 18 Dec 1999 14:54:24 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Programmers tips...  
In-Reply-To: <LYR11586-55791-1999.12.18-11.11.43--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-55817-1999.12.18-14.09.31--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912181453480.752-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

IAN,

Here is another useful "Programmer aid" that might save programmers a lot of grief... in the area of GPSxyz decoding:

-----  
TIP: In the GPSxyz construct, there are 12 "x" table offset characters that designate the numeric offset to ADD to the "y" ascii value to get the final symbol. The "z" overlay character is one-for one. The following two lists of these "x" TABLE characters and their equivalent ASCII table offsets may be handy to the programmer:

"B-33,P00,M-24,H08,L32,J74" These will be "primary" symbols  
"O-33,A00,N-24,D08,S32,Q74" These will be "alternate" symbols

Bob

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Dec 18 13:56:20 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA18506  
for <lyris.aprsspec@tappr.org>; Sat, 18 Dec 1999 13:56:15 -0600 (CST)  
Message-ID: <LYR11589-55818-1999.12.18-14.11.10--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sat, 18 Dec 1999 19:44:09 +0000

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: More on Conflict with WIDEn-N & Third Party Digipeating  
References: <LYR11586-55762-1999.12.18-04.02.12--  
bruninga#nadm.navy.mil@lists.tappr.org>  
<Pine.GSO.4.05L.9912181048160.26707-100000@arctic>  
In-Reply-To: <Pine.GSO.4.05L.9912181048160.26707-100000@arctic>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <VIcIcHAJQ+W4EwKz@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <Pine.GSO.4.05L.9912181048160.26707-100000@arctic>, Bob  
Bruninga <bruninga@nadm.navy.mil> writes

>On Sat, 18 Dec 1999, Roger Barker wrote:

>

>> Finally, a question - when WIDEn-n counts down to an SSID of '0', should  
>> the digi that outputs the frame with WIDE5(-0) set the 'H' bit? I think  
>> it should, but I also don't think that all implementations of WIDEn-n  
>> do. (Same applies to TRACEn-n.) So, should WIDE5, or WIDE5\*, or both, be  
>> regarded as a used up WIDE5-5?

>k

>When Kantronics was implementing it, that is what I told them to do... I  
>don't know if they did it that way or not. Not enough WIDEn's in my area  
>to test....

A KPC3 with 8.2 firmware doesn't. (Easily tested by sending a frame via  
WIDE5-1, that way you don't need any other WIDEn's.)

So, to return to the original example -  
VE7DIE>APW240,N7IFJ-10\*,WIDE5:}etc...

It's probably a "used up" WIDE5-5 with the last digi having been a  
Kantronics TNC.

--

Roger Barker, G4IDE   roger@peaksys.co.uk  
Boston, UK           http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Dec 18 16:36:09 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22882  
for <lyris.aprsspec@tappr.org>; Sat, 18 Dec 1999 16:36:09 -0600 (CST)  
Message-ID: <LYR11589-55838-1999.12.18-16.50.57--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sat, 18 Dec 1999 22:35:03 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
In-Reply-To: <LYR11659-55464-1999.12.16-13.32.33--  
ian#dowrmain.demon.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <kEsJiQAXwAX4Ew10@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR11659-55464-1999.12.16-13.32.33--ian#dowrmain.demon.co.uk@lists.tappr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes  
>The following related comments apply to Chapter 10, APRS Protocol Version  
>1.0. For these comments, LSB is numbered as zero.  
>  
>1. Page 37. There appears to be inadequate definition in MIC-E  
>Destination Address Field-  
>The fifth bit in each of the first 6 bytes of the destination field is not  
>adequately defined. It is shown by the symbol "x" (the 9th bullet on page  
>37) which we are told is either a 0 or 1. However, there is no definition  
>of where the 0 or 1 come from. We can handle the value of x as being part  
>of the bit pattern for the corresponding letter and then follow the table.  
>However, what is the purpose of the "x" parameter? The condition  
>corresponding to 0 and the condition corresponding to 1 should be  
>specified...unless it's a secret! It it just a flag to indicate the  
>shifted sequence? If so, why even bother since the P thru Z sequence could  
>convey the same information.  
>  
>2. page 38. The convention on latitude digit for letters A thru K is not  
>clear-  
>The representation on page 37 indicates the latitude digits are the  
>numerical value of the nibble made up of bits 1 thru 4 (shown as "dddd" in  
>the 1st and 2nd bytes, "mmmm" in the 3rd and 4th bytes and "hhhh" in the  
>5th and 6th bytes). For the letter "A", the nibble is 0001. This is

>clearly the decimal value 1, not the decimal value 0 shown in the upper  
>table on page 38. For "B", the corresponding nibble is 0010 which is the  
>decimal value 2, not the decimal value 1 shown in the table, etc. for the  
>remaining letters in the A to J sequence. They are all shifted by 1.  
>Possibly the notation "(custom)" in the table indicates it is a look-up  
>table (consisting of a offset-by-one pattern) for the A to J sequence  
>rather than the numerical value of the nibble (which would make more  
>sense!). If so, it should be stated- and one would wonder the reason (and  
>value) for this difference in representation over the more straight-forward  
>direct numerical value of the nibble.  
>  
>  
>I may have missed some reason for the above. Explanation or corrections of  
>interpretation would be appreciated.

Hi Lief.

The key to all of this is the table at the top of page 38 of the APRS  
Protocol spec draft (Mic-E Destination Address Field Encoding). It shows  
all of the possible ASCII characters (that will be left-shifted by one bit  
on transmission, per the AX.25 spec) for the first six address bytes.

Example 1: From the table, if the first address byte contains the letter  
"S", it represents the latitude digit "3" and a \*standard\* message "1"  
bit. The corresponding transmitted bit pattern is 10100110 (i.e. the  
letter "S" shifted one bit left). In this case, the "x" bit (bit 5) is  
"1".

Example 2: From the table, if the first byte contains the letter "D", it  
again represents the latitude digit "3", but this time with the \*custom\*  
message bit set. The transmitted bit pattern is 10001000 (i.e. "D" left  
shifted). In this case, bit 5 is "0".

So this shows how bit 5 can be either a "1" or a "0".

NOTE: In example 1, the latitude value corresponds to bits 1-4 (0011), but  
in example 2, the latitude value is one less than the value of bits 1-4  
(as you correctly pointed out).

This means that there is actually an error in the documentation on page  
37. The first bullet (under the format diagram) should read:

~~~~~  
* Six encoded latitude 4-bit nibbles specifying degrees, minutes ... etc
~~~~~

That is, the word "encoded" replaces "binary-coded-decimal", since the nibble is not necessarily a BCD digit as originally stated.

Bottom line: the table at the top of page 38 is the fundamental definition of the address encoding. I will be changing much of the the text on page 37 to emphasize this. I will also be adding examples like the ones above.

Sorry for any confusion -- this thing had me confused for months before I finally cracked it!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net             |
|                               |                                 |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 18 16:39:47 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23043  
for <lyris.aprsspec@tapr.org>; Sat, 18 Dec 1999 16:39:44 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-55841-1999.12.18-16.54.33--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sat, 18 Dec 1999 17:40:43 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Ommission: Position ambiguity munging rules  
References: <LYR11601-55791-1999.12.18-11.11.43--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <385C0D6B.C15463B0@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Steve Dimse wrote:

>  
> Don't know what you mean by munging...that generally implies changing  
> something. This situation is simply ignoring the ambiguity, so I would  
> not choose that term.

Yes, you are changing something.

Steve Dimse wrote on 16 Dec 1999 in a message titled "Re: Default Null":

> All my software treats 072\_\_.\_W as 72.0000, and will continue to.

Now 72 degrees is not 72.0000 degrees. Depending on the rounding method, your reading of 72.0000 degrees could be off up to -0.9999 degrees. And for most flugate compasses, you can only indicate to the nearest 5 degrees, meaning your error would now be off up to -9.9999 degrees.

Now, \_\_\_pay attention\_\_\_ to this next paragraph. It is the key to the misunderstanding I think we have here.

This munging is fine as long as you understand this error and it is acceptable to you. The problem comes into being when (or if) a author decides to pass the munged (incorrect) data on without passing on the degree of precision (or ambiguity level) TO ANOTHER STATION.

> The spec does not contain  
> information about how this, or most other things, are to be displayed by  
> individual programs.

I have no concern at all about end user display applications. Re-read the message you are replying to.

> However, ambiguity is one I feel very strongly about. I am completely  
> unconvinced of the need for it, and even if I were, no one has

> demonstrated to me a method of adequately conveying it in any program,

Then the spec is incomplete. If the spec is going to include ambiguity, it also needs to include a way to convey ambiguity (which it appears to do). If you don't agree with the spec, then I think you should either remove it or document it better. I don't think the solution is to ignore the spec as you suggested in another message.

>However, ambiguity is one I feel very strongly about. I am completely  
>unconvinced of the need for it, and even if I were, no one has

As what we are discussing is basic high school chemistry stuff, there must be some sort of misunderstanding as I know you are a smart person.

So explain to me exactly why you are unconvinced of the need to convey ambiguity in APRS?? While you have stated this on at least two occasions, you yet to have actually told anyone here why you feel this way (other than in a end user display app, which is not the concern, as we both agree on).

>demonstrated to me a method of adequately conveying it in any program,

> much less one that can be successfully implemented in all APRS displays.

Again, re-read my message(s) on the topic. I said nothing about display applications. I said when the data is passed on to another party.

I've attached the specific parts I'd like addressed, including the quote from Paul Keinanen who first pointed out this error.

So either everyone follows the rules for ambiguity (and doesn't munge the data) or specific munging rules are added to the SPEC indicating in what cases (such as end user display apps) that munging will be allowed. You can't leave this out of the spec as it will make the whole section on position ambiguity pointless.

Or is this already in the SPEC and I am just missing it?

As it stands now, you are saying there is a undocumented rule that no-one need pay any attention to the ambiguity spec. This exception needs to be documented, and as it is not, my OMISSION comment seems valid

Thank you



-Jeff

-----

It is claimed the WG agreed to allow the authors to munge position ambiguity any way they see fit. Since their public silence on this issue seems not impugn this, can we assume this is true? I cannot find any position ambiguity munging rules in the present APRS-SPEC document.

These munging rules need to be in the document if the statement below is true, and most certainly need to be part of the certification process.

-Jeff

```
> >07201.7_W represents longitude to nearest 1/10th of a minute.
> >07201.___W represents longitude to nearest minute.
> >0720.___W represents longitude to nearest 10 minutes.
> >072___W represents longitude to nearest degree.
> >
> >where _ represent the space character. It is clearly wrong to receive
> >a position of 072___W and forward it as 07200.00W, so either the
> >ASCII string must be stored and forwarded or some other means must be
> >used the number of digits used.
> >
> Well, this has been a MAJOR point of contention between Bob and myself
> over the last year. I am completely unconvinced that there is a need for
> ambiguity in the first place. What we finally decided after an great deal
> of arguing is we would place it into the protocol, but it is up to the
> individual programmer on if, and how, to handle the ambiguity.
```

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org) Sat Dec 18 23:53:22 1999  
Received: from [lists.tapr.org](mailto:lists.tapr.org) ([lists.tapr.org](mailto:lists.tapr.org) [204.17.217.24])  
by [tapr.org](mailto:tapr.org) (8.9.3/8.9.3/1.13) with SMTP id XAA06925  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 18 Dec 1999 23:53:22 -0600 (CST)  
Message-Id: <LYR11589-55900-1999.12.19-00.08.17-->

lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 18 Dec 1999 22:53:01 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Format Error  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <10313030cb4822157c840@[198.106.196.185]>  
<LYR11893-55714-1999.12.18-00.00.15--wagnerj#proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In a number of locations (page 28 is one example), the format description calls out time as optional for the !, =, /, @ formats.

>From what I can make of the format descriptions:

! and = specify location messages without timestamp, and  
/ and @ specify location messages with timestamp.

Clearly, timestamp is NOT OPTIONAL in any of these formats.

It is PROHIBITED in "!" and "="

It is REQUIRED in "/" and "@"

It is patently false to call it optional in any of these.

While I am impressed with the incredible work done to assemble this draft of the APRS protocol, to my mind, this is absolutely incorrect. And, it appears over and over throughout the spec.

This is not "just a matter of semantics". It has to do with truthfulness and accuracy for programmers yet to come onto the scene.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University

-----  
A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 19 04:00:01 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA27674  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 19 Dec 1999 04:00:01 -0600 (CST)  
Message-ID: <LYR11589-55918-1999.12.19-04.14.52--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Date: Sun, 19 Dec 1999 09:58:40 +0000  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
References: <LYR11659-55464-1999.12.16-13.32.33--  
[ian#dowrmain.demon.co.uk@lists.tapr.org](mailto:ian#dowrmain.demon.co.uk@lists.tapr.org)>  
<LYR13460-55838-1999.12.18-16.50.57--[roger#peaksys.co.uk@lists.tapr.org](mailto:roger#peaksys.co.uk@lists.tapr.org)>  
In-Reply-To: <LYR13460-55838-1999.12.18-16.50.57--  
[roger#peaksys.co.uk@lists.tapr.org](mailto:roger#peaksys.co.uk@lists.tapr.org)>  
MIME-Version: 1.0  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <NHnAvFAQxKX4EwGH@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR13460-55838-1999.12.18-16.50.57--[roger#peaksys.co.uk@lists.tapr.org](mailto:roger#peaksys.co.uk@lists.tapr.org)>, Ian Wade <[ian@dowrmain.demon.co.uk](mailto:ian@dowrmain.demon.co.uk)> writes  
[snip]

>The key to all of this is the table at the top of page 38 of the APRS  
>Protocol spec draft (Mic-E Destination Address Field Encoding). It shows  
>all of the possible ASCII characters (that will be left-shifted by one bit  
>on transmission, per the AX.25 spec) for the first six address bytes.

It's difficult to see why the Mic-E destination address is presented in  
its AX25 link-layer format.

--

Roger Barker, G4IDE roger@peaksys.co.uk  
Boston, UK http://www.packetradio.org.uk

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 19 05:08:31 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA28588  
for <lyris.aprsspec@tapr.org>; Sun, 19 Dec 1999 05:08:29 -0600 (CST)  
Message-ID: <LYR11589-55919-1999.12.19-05.23.15--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 19 Dec 1999 11:07:21 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
In-Reply-To: <LYR11659-55918-1999.12.19-04.14.52--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <hvz4YDApxLX4Ew3e@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-55918-1999.12.19-04.14.52--ian#dowrmain.demon.co.uk  
@lists.tapr.org>, Roger Barker <roger@peaksys.co.uk> writes

>  
>It's difficult to see why the Mic-E destination address is presented in  
>its AX25 link-layer format.  
>

Roger, if by that you mean "why is the format diagram on page 37 shown  
the way it is?", then I agree. I almost omitted that diagram when  
writing the spec -- I only left it in because other people had  
documented that way, and it was familiar to a large audience.

Having discovered the errors in it, I have now decided to redraw it,  
omitting any reference to individual bits within each byte (for the  
first 6 bytes). The lookup table on page 38 says it all.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net       |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
+-----+
```

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 19 05:08:39 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA28599  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 19 Dec 1999 05:08:38 -0600 (CST)  
Message-ID: <LYR11589-55920-1999.12.19-05.23.33--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
From: "Dale Huguley" <[kg5qd@worldnet.att.net](mailto:kg5qd@worldnet.att.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Error: Storm Data  
Date: Sun, 19 Dec 1999 11:06:06 -0000  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <000901bf4a11\$0d039020\$53984d0c@dale-s-home>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi All- this is a repost of my comments from Dec. 5th . This is the last day of the comment period for the protocol, and there has been zero discussion of the hurricane protocol. I can assume that either my comments are taken in whole- or are being ignored. I am not very upset at all this due to my intention to propose a shorter and more descriptive wind field

protocol after that is acceptable.

The hurricane spec changes the order of the data in the pressure and wind field areas. This means to implement the draft a 100 % changeover in user software by the next hurricane season.

I have serious problems with what I consider "geocentric" definitions:

There are parts of the world that do not use "hurricane" for a severe tropical cyclone. They are called Typhoons, Tropical Cyclones, Severe Tropical Cyclones etc..

The winds are defined as MPH. This is a major problem due to the more universal standard being knots. Internally at the National Hurricane Center they use knots and only convert to MPH for "Public" statements designed for U.S. distribution. The vast majority of bulletins from Guam, Miami and Honolulu are in knots. If a user wants the winds to show in MPH, the display software should do the conversion.

Radius should be in Nautical Miles to be consistent with knots.

Drop the business about gusts being in the last 5 minutes- this is not real time data but estimates of winds possible (even in "present" positions)

Time should be the "Valid" time of the object- not the time received or transmitted

The names used in the example will not work- send two objects with the same name and only one will be kept, the first will be overwritten.

73 de kg5qd Dale

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 19 07:52:59 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01871  
for <lyris.aprsspec@tapr.org>; Sun, 19 Dec 1999 07:52:56 -0600 (CST)  
Message-Id: <LYR11589-55923-1999.12.19-08.07.50--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Error: Storm Data  
In-reply-to: Your message of "Sun, 19 Dec 1999 11:06:06 GMT."

<LYR11592-55920-1999.12.19-05.23.33--n8ur#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Date: Sun, 19 Dec 1999 08:52:36 -0500  
From: John Ackermann <jra@febo.com>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912191352.IAA30070@meow.febo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi Dale --

I just wanted to let you know that your comments are in the queue.

Although many of the comments posted to the list have resulted in lively discussion involving Ian and the various authors, that discussion is really outside the formal process, which calls for all comments to be considered by the WG after the comment period closes. Please don't take the lack of discussion on this list as a sign that the comment hasn't been noticed -- if the authors haven't been thinking about it already (and I don't know whether they have), they will see it again when I bundle up the set of comments and hand it to them in the next couple of days.

73,  
John N8UR (jra@febo.com)  
Administrative Chair, APRS WG  
----

> Hi All- this is a repost of my comments from Dec. 5th . This is the last  
> day of the comment period for the protocol, and there has been zero  
> discussion of the hurricane protocol. I can assume that either my comments  
> are taken in whole- or are being ignored. I am not very upset at all this  
> due to my intention to propose a shorter and more descriptive wind field  
> protocol after that is acceptable.  
>  
> The hurricane spec changes the order of the data in the pressure and wind  
> field areas. This means to implement the draft a 100 % changeover in user  
> software by the next hurricane season.  
>  
> I have serious problems with what I consider "geocentric" definitions:  
>  
> There are parts of the world that do not use "hurricane" for a severe  
> tropical cyclone. They are called Typhoons, Tropical Cyclones, Severe Tropical

> Cyclones etc..  
>  
> The winds are defined as MPH. This is a major problem due to the more  
> universal standard being knots. Internally at the National Hurricane Center  
> they use knots and only convert to MPH for "Public" statements designed for  
> U.S. distribution. The vast majority of bulletins from Guam, Miami and  
> Honolulu are in knots. If a user wants the winds to show in MPH, the  
> display software should do the conversion.  
>  
> Radius should be in Nautical Miles to be consistent with knots.  
>  
> Drop the business about gusts being in the last 5 minutes- this is not real  
> time data but estimates of winds possible (even in "present" positions)  
>  
> Time should be the "Valid" time of the object- not the time received or  
> transmitted  
>  
> The names used in the example will not work- send two objects with the same  
> name and only one will be kept, the first will be overwritten.  
>  
> 73 de kg5qd Dale  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: n8ur@tapr.org  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 19 07:55:11 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01935  
for <lyris.aprsspec@tapr.org>; Sun, 19 Dec 1999 07:55:07 -0600 (CST)  
Message-ID: <LYR11589-55924-1999.12.19-08.09.59--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 19 Dec 1999 13:52:33 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
References: <LYR11659-55918-1999.12.19-04.14.52--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
<LYR13460-55919-1999.12.19-05.23.15--roger#peaksys.co.uk@lists.tapr.org>  
In-Reply-To: <LYR13460-55919-1999.12.19-05.23.15--



roger#peaksys.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <xTrPqCAhMOX4EwGt@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR13460-55919-1999.12.19-05.23.15--roger#peaksys.co.uk@lists.tappr.org>, Ian Wade <ian@dowrmain.demon.co.uk> writes  
>In article <LYR11659-55918-1999.12.19-04.14.52--ian#dowrmain.demon.co.uk>  
>@lists.tappr.org>, Roger Barker <roger@peaksys.co.uk> writes  
>  
>>  
>>It's difficult to see why the Mic-E destination address is presented in  
>>its AX25 link-layer format.  
>>  
>  
>Roger, if by that you mean "why is the format diagram on page 37 shown  
>the way it is?", then I agree. I almost omitted that diagram when  
>writing the spec -- I only left it in because other people had  
>documented that way, and it was familiar to a large audience.

Yes, I appreciate that it already existed, and that a large number of people had already torn out some hair trying to understand it! ;-)

The point is, of course, that most APRS applications handling Mic-E data will be using the destination address in its ASCII, i.e. not AX25 shifted, format. Exactly as they will use every other AX25 destination address in its ASCII format. (Most applications wouldn't even be able to access it in AX25 format.)

As a general point - I don't think the spec should concern itself at all with link-layer implementation.

--  
Roger Barker, G4IDE    roger@peaksys.co.uk  
Boston, UK            http://www.packetradio.org.uk

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org    Sun Dec 19 09:24:30 1999

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])  
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id JAA03851  
for <lyris.aprsspec@tapir.org>; Sun, 19 Dec 1999 09:24:29 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sun, 19 Dec 1999 10:23:39 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
In-Reply-To: <LYR11586-55918-1999.12.19-04.14.52--  
bruninga@nadn.navy.mil@lists.tapir.org>  
Message-ID: <LYR11589-55929-1999.12.19-09.39.26--  
lyris.aprsspec@tapir.org@lists.tapir.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>  
X-Message-Id: <Pine.GS0.4.05L.9912191022310.19349-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

On Sun, 19 Dec 1999, Roger Barker wrote:

> It's difficult to see why the Mic-E destination address is presented in  
> its AX25 link-layer format.

I agree. I always think in terms of its ASCII "displayed" value. I think  
talking about all the shifting just encumbers the details...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tapir.org Mon Dec 20 00:21:14 1999  
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])  
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id AAA07392  
for <lyris.aprsspec@tapir.org>; Mon, 20 Dec 1999 00:21:13 -0600 (CST)  
Message-ID: <LYR11589-56026-1999.12.20-00.36.09--  
lyris.aprsspec@tapir.org@lists.tapir.org>

Date: Mon, 20 Dec 1999 06:20:02 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Thanks to everyone  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <6INOxAASqcX4EwnJ@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

A quick line to thank everyone who's contributed to the discussion of the APRS Protocol specification draft. Your feedback has given me and the APRS Working Group a lot to think about over the holiday!

As Working Group Chairman John Ackermann said yesterday, please don't think we're ignoring your points if we didn't comment on them. There just wasn't time to address every one of them in this list before the deadline.

I now have a hardcopy of all the comments and will be going through them in detail with the Working Group. Once I have a better feel for how long this will take, John will make a public announcement saying when the Working Group will publish the final version of the spec.

Meantime, have a great Christmas and New Year's!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Dec 20 09:28:51 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA28976  
for <lyris.aprsspec@tappr.org>; Mon, 20 Dec 1999 09:28:50 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 20 Dec 1999 10:28:28 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] ACK problem in SPEC  
In-Reply-To: <LYR11586-55923-1999.12.19-08.07.50--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-56061-1999.12.20-09.43.45--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.9912201004550.27616-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

The section on MESSAGES and ACKS is ambiguous about what constitutes a valid "ACK". Some authors require the FROM-CALL of the ACKing station to MATCH while others only rely on the message number.

Where this problem is seen on the air is in the following example:

Station A sends an email message via the EMAIL engine. His outgoing message is addressed to the pseudocall of "EMAIL"  
The reply ACK comes back FROM the callsign of the engine's TNC, not the matching callsign "EMAIL".

#### SOLUTIONS:

- 1) Sprouls solved it by making an "exception" to the callsign "EMAIL"
- 2) Brent solved it by accepting any matching ACK number regardless of who sent it...
- 3) APRSdos wont accept the EMAIL ack, because it is not from the matching TOCALL.

None of these are good permanent solutions. I think the following:

- 4) The "right" and most general solution is for an EMAIL engine to use

KISS mode and to send back the ACK with the proper "EMAIL" from call.

I am not picking on "EMAIL" here. it is just one example. There are also ICQ and other pseudocall engines that will be used on APRS...

BOTTOM LINE. Does the SPEC need to solve this problem by making a stand on the requirement (or lack of requirement) for a CALLSIGN match for ACKS?

At this point in spec 1.0, maybe the politically correct position is to add a sentence at the top of page 58:

Whether or not the FROM-CALL of the ACK is required to come from the same callsign as the ADDRESSEE is implemented differently in different versions. This issue is currently unresolved...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 20 17:43:55 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA14131  
for <lyris.aprsspec@tapr.org>; Mon, 20 Dec 1999 17:43:54 -0600 (CST)  
Date: Mon, 20 Dec 1999 17:43:41  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: "Lief Hendrickson" <lhendric@mail.sdsu.edu>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-Id: <LYR11589-56095-1999.12.20-17.58.52--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Precedence: bulk

Ian,

Thanks for your response. Good explanation about the fact that the latitude nibble is encoded rather than simply the numerical value of the nibble. The examples you gave were "S" and "D". The question still remains of why a transmitting station would use one set of letters over another (A thru K versus P thru Z). As you show, the "S" and "D" mean exactly the same. The only difference is whether bit 5 is "0" or "1". Well, the value of a bit being "0" or "1" conveys information. So bit 5 does convey information though no mention is made of what information is

conveyed (if any!) Why would make a system choose use of "S" over use of "D" (per example)? If no information is conveyed, it should be so stated, i.e. the fact that the value of bit 5 being "0" or "1" is not used for any purpose (for the time being!).

If A thru K is equivalent to P thru Z why not just get rid of A thru K and streamline the decoding.

Thanks.

-Lief

At 12:00 AM 12/18/99, you wrote:

>-----

>

>Subject: Re: Mic-E Destination Address Field

>From: Ian Wade <ian@dowrmain.demon.co.uk>

>Date: Sat, 18 Dec 1999 22:35:03 +0000

>

>In article

<LYR11659-55464-1999.12.16-13.32.33--ian@dowrmain.demon.co.uk@l

>ists.tapr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes

>>The following related comments apply to Chapter 10, APRS Protocol  
Version

>>1.0. For these comments, LSB is numbered as zero.

<...stuff deleted...>

>Hi Lief.

>

>The key to all of this is the table at the top of page 38 of the APRS  
>Protocol spec draft (Mic-E Destination Address Field Encoding). It shows  
>all of the possible ASCII characters (that will be left-shifted by one  
bit

>on transmission, per the AX.25 spec) for the first six address bytes.

>

>Example 1: From the table, if the first address byte contains the letter  
>"S", it represents the latitude digit "3" and a \*standard\* message "1"  
>bit. The corresponding transmitted bit pattern is 10100110 (i.e. the  
>letter "S" shifted one bit left). In this case, the "x" bit (bit 5) is  
>"1".

>

>Example 2: From the table, if the first byte contains the letter "D", it  
>again represents the latitude digit "3", but this time with the \*custom\*  
>message bit set. The transmitted bit pattern is 10001000 (i.e. "D" left  
>shifted). In this case, bit 5 is "0".

>

>So this shows how bit 5 can be either a "1" or a "0".

>

>

>NOTE: In example 1, the latitude value corresponds to bits 1-4 (0011),

but  
>in example 2, the latitude value is one less than the value of bits 1-4  
>(as you correctly pointed out).  
>  
>This means that there is actually an error in the documentation on page  
>37. The first bullet (under the format diagram) should read:  
>  
>~~~~~  
>\* Six encoded latitude 4-bit nibbles specifying degrees, minutes ... etc  
>  
>~~~~~  
>  
>That is, the word "encoded" replaces "binary-coded-decimal", since the  
>nibble is not necessarily a BCD digit as originally stated.  
>  
>Bottom line: the table at the top of page 38 is the fundamental  
definition  
>of the address encoding. I will be changing much of the the text on page  
>37 to emphasize this. I will also be adding examples like the ones above.  
>  
>Sorry for any confusion -- this thing had me confused for months before I  
>finally cracked it!  
>  
>73  
>Ian, G3NRW  
>Technical Editor, APRS Protocol Specification  
>  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 21 00:51:42 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA03237  
for <lyris.aprsspec@tapr.org>; Tue, 21 Dec 1999 00:51:38 -0600 (CST)  
Message-ID: <LYR11589-56165-1999.12.21-01.06.33--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Tue, 21 Dec 1999 06:40:43 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
In-Reply-To: <LYR11659-56095-1999.12.20-17.58.52--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <T2TkeDArDyX4Ewh7@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-56095-1999.12.20-17.58.52--ian@dowrmain.demon.co.uk@lists.tapr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes

>If A thru K is equivalent to P thru Z why not just get rid of A thru K and  
>streamline the decoding.

Lief, A-K is *\*not\** equivalent to P-Z.

The latitude values happen to be the same in both those ranges, but the message "1" bit has a different meaning. If the character is "D", the *\*custom\** message bit is set. If the character is "S", the *\*standard\** message bit is set.

Example 1: If the first 3 bytes of the address are "D4F", from the table on page 38 you'll see this means:

- a. the latitude digits are "345".
- b. the message is a *\*custom\** message, because the address contains letters in the range A-K. From the table, the message bits (bits A/B/C) are "101". From the table at the bottom of the page, this corresponds to "Custom-2" (which can have any prior agreed meaning).

Example 2: If the first 3 bytes of the address are "S4U":

- a. the latitude digit are again "345".
- b. the message this time is a *\*standard\** message, because the address contains letters in the range P-Z. From the table, the message bits are again "101", corresponding to standard message "In Service".

Finally, forget about the meaning of any individual *\*bit\** in the first 6 bytes of the address. Any particular bit may be a "1" or a "0" depending on the ASCII character left-shifted. So bit 5 doesn't have any particular meaning -- just think about encoded *\*bytes\**.



[If you decide to write code to handle this, you could write out the bit patterns corresponding to every ASCII character (left-shifted) in the table, and then possibly decide you \*can\* handle individual bits algorithmically. Or you could take the easy way out and simply use table lookup. The choice is yours -- that's an implementation issue, not a protocol issue].

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net             |
|                               |                                 |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 21 11:29:06 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA28666

for <lyris.aprsspec@tapr.org>; Tue, 21 Dec 1999 11:29:02 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Tue, 21 Dec 1999 12:28:44 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] ACK processing

Message-ID: <LYR11589-56212-1999.12.21-11.44.01--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.05L.9912211227460.11955-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

One more addition which I think is VERY important to convey to authors.

Insert at the top of page 58 after the ACK table something to the effect of:

APRS uses an end-for-end ACKnowledgment system. The probability of receiving an ACK degrades very rapidly as the number of hops increases. To counter this, authors are encouraged to implement schemes to add redundancy to ACKS. Schemes currently in use:

- 1) ACK all dupes of incoming messages
- 2) Do not filter out ACK dupes at Igates and Nodes
- 3) Generate multiple ACKS if a message is received over a long path
- 4) Schedule a duplicate delayed ACK if a message has been received multiple times
- 5) Remember, that modern DIGIS and APRServe filters all dupes within 30 seconds, so duplicates must be separated by at least 30+ secs.

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 22 13:35:09 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA25432  
for <lyris.aprsspec@tapr.org>; Wed, 22 Dec 1999 13:35:04 -0600 (CST)  
Date: Wed, 22 Dec 1999 13:34:53  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: "Lief Hendrickson" <lhendric@mail.sdsu.edu>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-Id: <LYR11589-56341-1999.12.22-13.50.07--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Precedence: bulk

Ian,

Thanks for comments. The discussion about interpretation is good.

However, the confusion in reading the spec is still there. The way the spec is written on page 37 is confusing. The spec just says "x" is a "0" or "1". A reader naturally wonders O.K. why the significance of saying a bit is either a "0" or a "1" (it couldn't be anything else but a "0" or a "1"!).

>From what we've discussed, when the "x" bit is a "1", it means the message bit is a custom. As you've pointed out, this is because the character set corresponding to the "Custom" designation fall in the A thru K range- these all have that bit equal to "1". So, why not just say that in the spec. If anything is to be said about the "x" bit, it should be more than the obvious that it is a "0" or a "1"- which is true of any bit!

Maybe the spec could say something like  $x = 1$  corresponds to a custom message. I know this falls in place from being in the A thru K set. One can already figure that out from the table. This is just a suggestion of what could be said about "x" if the spec is to identify it as a parameter- which it currently does on page 37. It's not good to have dangling parameters. Of course, then we have the problem of what to say about  $x = 0$  since that could correspond to the character set 0 thru 9 or to the set P thru Z- of which only the latter corresponds to a standard message. Difficulty in explaining the situation should not be a reason for ignoring it. I suppose it could be said the "x" bit just falls in place depending on other circumstances. However, its meaning should be addressed somehow if it is shown with its own definition line.

What does use of the character set 0 thru 9 say about whether a message is standard or custom? And what happens if the "x" bits of the first three bytes are different. This is not clear relative to the bottom table on page 38. (Please see comment after your example 1 below)?

At 12:00 AM 12/22/99, Ian Wade wrote:

```
>-----
>
>In article <LYR11659-56095-1999.12.20-17.58.52--ian@dowrmain.demon.co.uk
>@lists.tapr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes
>
>
>>If A thru K is equivalent to P thru Z why not just get rid of A thru K
and
>>streamline the decoding.
>
>
>Lief, A-K is *not* equivalent to P-Z.
>
>The latitude values happen to be the same in both those ranges, but the
>message "1" bit has a different meaning. If the character is "D", the
>*custom* message bit is set. If the character is "S", the *standard*
```

>message bit is set.

>

>Example 1: If the first 3 bytes of the address are "D4F", from the table  
>on page 38 you'll see this means:

>

>a. the latitude digits are "345".

>

>b. the message is a \*custom\* message, because the address contains  
>letters in the range A-K. From the table, the message bits (bits A/B/C)  
>are "101". From the table at the bottom of the page, this corresponds to  
>"Custom-2" (which can have any prior agreed meaning).

>

Why did you use "4" as the second byte? If this example was intended to  
specify a "custom" message, it seems "E" should be used instead of "4" as  
the second byte.

Suppose the first three bytes were "D4U". This would still be the same  
latitude, but the first byte is "Custom", the second is neither "Custom" or  
"Standard", and the third is "Standard". Where would this fall in the  
table at the bottom of page 38?

>

>Example 2: If the first 3 bytes of the address are "S4U":

>

>a. the latitude digit are again "345".

>

>b. the message this time is a \*standard" message, because the address  
>contains letters in the range P-Z. From the table, the message bits are  
>again "101", corresponding to standard message "In Service".

>

Again, the second byte is neither "Custom" or "Standard". It could have  
been "T" instead of "4". In that case, the "B" parameter would still be  
"1", but its byte would be within the "Standard" character set. ...or is  
there some requirement I am missing about the character set of the second  
byte.

The table at the bottom of page 38 has a column for "Standard" and a column  
for "Custom". Yet the three bytes (the parameters "A", "B", & "C") could  
potentially be different in specifying "Custom" or "Standard" leading to  
confusion.

>

>Finally, forget about the meaning of any individual \*bit\* in the first 6  
>bytes of the address. Any particular bit may be a "1" or a "0" depending  
>on the ASCII character left-shifted. So bit 5 doesn't have any  
>particular meaning -- just think about encoded \*bytes\*.

>  
>[If you decide to write code to handle this, you could write out the bit  
>patterns corresponding to every ASCII character (left-shifted) in the  
>table, and then possibly decide you \*can\* handle individual bits  
>algorithmically. Or you could take the easy way out and simply use table  
>lookup. The choice is yours -- that's an implementation issue, not a  
>protocol issue].  
>

Well, I agree it is the combination of bits that is important. Using the encoding of the table will work. However, there is still the confusion of how to interpret something if there is inconsistency in use of the three character sets (Standard, Custom, and neither). For example, "D4U" or "DEU". If mixing types is prohibited, it should be so stated. Or perhaps specify something like- use only the first byte to determine type ("Custom" or "Standard").

It is a protocol issue in that there is the possibility of mixing the character sets and it isn't clear which one would take precedence. If the meaning of bit "x" is not important for a protocol spec, perhaps some other representation would be better- rather than simply saying it is a "0" or a "1" as shown on page 37.

Thanks.  
Lief

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 02:05:54 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA21701  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 02:05:53 -0600 (CST)  
Message-ID: <LYR11589-56420-1999.12.23-02.20.44--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 22 Dec 1999 23:42:46 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Mic-E Destination Address Field  
In-Reply-To: <LYR11659-56341-1999.12.22-13.50.07--  
ian#dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <XCblTBA2HWY4Ewac@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-56341-1999.12.22-13.50.07--ian@dowrmain.demon.co.uk@lists.tapr.org>, Lief Hendrickson <lhendric@mail.sdsu.edu> writes  
>Ian,  
>  
>Thanks for comments. The discussion about interpretation is good.  
>However, the confusion in reading the spec is still there. The way the  
>spec is written on page 37 is confusing.

Yes, I know it is confusing. A few days ago I said I was going to rewrite it. In the next release of the document it will look quite different.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |  
+-----+

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 15:28:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21438  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 15:28:30 -0600 (CST)  
Date: Thu, 23 Dec 1999 15:28:19 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-56492-1999.12.23-15.43.39--  
lyris.aprsspec@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Opps, my apologies  
In-Reply-To: <LYR11595-55479-1999.12.16-15.31.02--

salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <199912232128.PAA86429@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Subject: [aprsspec] Re: Opps, my apologies  
> Date: Thu, 16 Dec 1999 15:12:42 -0600  
> From: Steve Dimse <k4hg@tapr.org>  
> [...]  
> This is not what the field [the AX.25 destination field when encoded as the  
> originating software product and version] is intended for. You have no idea  
> how frustrating it is to have someone send you a message saying "the packet  
> from WZ9ZZZ isn't decoded by your program", and then to go dig out a  
> packet from that station, see it is incorrectly formed, and have no idea  
> which program sent it.  
>  
> This is why the author/manufacturer field is there. It is very much  
> appreciated by those of us that need to troubleshoot the system, and  
> needs to remain in place.

I still don't believe this is a particularly strong argument.

A trivial alternative is to simply ask WZ9ZZZ what software he or she is running. Why, you could even try sending an APRS message to WZ9ZZZ...

I believe there are much better uses that could be made of the AX.25 destination address, (such as using it as a multicast address, but that is another proposal).

By the way, including the APRS protocol version number somewhere in each APRS packet (although not necessarily in the AX.25 destination address as was proposed) has the significant advantage that when new versions of APRS are defined the receiver can determine whether to parse the packet as an APRS 1 packet or an APRS 2 packet. (I suppose I should save this mail for all the e-mail I will see that says: "We can't do that in APRS 2.0 because the receiver might try to parse the packet as an ARPS 1.0 packet".)

[Insert long editorial here about why now is the time to think about how we will migrate to new versions of the APRS protocol...]

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:44:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07488  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:44:32 -0600 (CST)  
Message-Id: <LYR11589-56558-1999.12.23-23.59.43--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:44:15 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Compressed Position Report Error??  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <103130305b488a3b698a9@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello Group -

On page 30, under "advantages" (9th bullet), it says:

"Potential 400% reduction of raw GPS NMEA data length"

I hope that is a typo, or someone is a miracle worker. A 100% reduction  
would make it 0 length. How long would a message be when reduced by 400%?

I can see 40%.

Best wishes -

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous



---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:45:12 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07545  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 23 Dec 1999 23:45:11 -0600 (CST)  
Message-Id: <LYR11589-56559-1999.12.24-00.00.22--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:44:56 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Mic-E Destination Address detection  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130306b488a49ecf3a@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello All -

How does one distinguish a Mic-E destination address from one of the usual APRS net names?

Example: APW522 has a legit Mic-E translation, as far as I can see.

Please don't tell me that the parser has to wait until discovering the message type later in the packet!!!

Also, is it correct, as it appears, that if one has any net name filtering on, that most Mic-E packets will be lost?

Thanks....

Jim Wagner  
Oregon Research Electronics

-----  
[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com) Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of

ka7ehk@yahoo.com

Oregon State University

-----  
A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:46:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07589  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:45:57 -0600 (CST)  
Message-Id: <LYR11589-56563-1999.12.24-00.00.50--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:45:24 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Mic-E ABC bits  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130307b488a5f41fb3@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello -

Is it required that all one bits in the ABC set be from the same Custom or Standard group?

For example, suppose that "E" were used to indicate Custom and 40 degrees. Would the character for 5 degrees have to be "F" or could it be "U"?

Should a Mic-E packet that mixes custom and standard group characters be rejected as invalid?

Thanks again -

Jim Wagner

Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:47:06 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07636  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:47:03 -0600 (CST)  
Message-Id: <LYR11589-56565-1999.12.24-00.01.27--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:45:36 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Mic-E Information Field  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130308b488a6d554c8@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings -

In the expressions at the end of page 39, it says:

d+28: Binary degrees of longitude. To decode:

1. subtract 28
2. if the L bit is set, add 100 to get the final value of longitude
3. subtract 80 if 180<=D<=189

"D" is not defined anywhere!

This same construction is also used several times on page 40.

Please be more explicit!

Thank you,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:47:16 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07647  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:47:14 -0600 (CST)  
Message-Id: <LYR11589-56566-1999.12.24-00.02.18--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:46:48 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Telemetry Data Format  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130309b488a7d891c4@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hi Group -

Here are some questions about Telemetry format

Question 1 -----

On page 54, is the Telemetry Sequence Number constrained to numeric characters?

Question 2 -----

What does one do with fewer than 6 quantities? Is it just terminated at the end of the last quantity used, or must the comma-delimited format be filled out. In other words, is

T#005,199

valid?

Or, is it required

T#005,199,,,,,

Or, is it required

T#005,199,0,0,0,0,0

Question 3 -----

Why are the "analog" values constrained to the range 0-255? Why not 0-511 or 0-999? I can think of a number of situations where higher resolution is appropriate.

Question 4 -----

Why is the last field called "Digital"? These are all digital in that they are discrete integers. The last field would be better called "binary" because it is a set of digits representing 8 binary values. I believe that this would provide better understanding of the function of the field.

Question 5 -----

Is there an error in the polynomial expansion example? For coefficients 0,5.2,0 and value 199, it shows an expansion of  $0 \times 128^2 + 5.2 \times 199 + 0$ . I believe that the first term should be  $0 \times 199^2$ . While it does not change the outcome (because the coefficient is 0), it makes it very confusing for someone to understand how to do the expansion.

Thanks

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:47:57 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07667  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:47:54 -0600 (CST)  
Message-Id: <LYR11589-56569-1999.12.24-00.02.40--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:47:16 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Message Questions  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <10313030ab488b07c9a57@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello, Everyone -

In the description of Messsage Acks on page 58, it says nothing about ack timing. Is ACK sent once for each message received or are multiple ACKs sent?

And, in the description of "message groups", it says "An APRS station can specify special Message Groups, containing lists of callsigns that the stations will read messages from (in addition to messages addressed to itself). Such lists are defined internally by the user at the receiving station, and are used to filter received message traffic."

Then, a paragraph later, it says:

"The receiving station will only acknowledge messages addressed to itself, and not any messages which were addressed to any group callsign."

Does this mean that some arbitrary "callsign" is chosen as a "group callsign" and members of the group assign themselves to respond to said callsign? Or, does it mean that a filter list is established and that a message addressed to anyone on the list is read as a message?

Many thanks -

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                      Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:51:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07750  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 23 Dec 1999 23:50:59 -0600 (CST)  
Message-Id: <LYR11589-56574-1999.12.24-00.05.51--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:49:24 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Query Questions  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <10313030bb488b3774dfe@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Hello again, everyone .....

Here are a bunch of questions about queries:

(1) In the former protocol description, it was mentioned that stations responding to a general query respond at "random" times over a 2 minute interval, I believe. This seems to be absent from the new spec. Has it been forgotten, or is it no longer considered important?

(2) Case of query commands is never discussed. Are they always upper case?

(3) In the very first paragraph of the Query chapter on page 61, it says:

"A station may set up a file containing a list of one or more Station Capabilities. These define attributes for the station. When queried for its capabilities, the station responds by transmitting the contents of the file, preceded by the < Data Type Identifier."

Why is it necessary to include implementation-specific language? No file is required. Software could easily be written so that the operator checks boxes in a dialog and responds with a capabilities message derived from the dialog (without a "file" ever being created). I don't feel that this language is appropriate for the specification.

(4) I would like to see directed IGATE and WX queries. To me, they make a lot of sense. For example when I really just want the wx report from a specific Eastern Washington station, why should the network be flooded with a dozen or more useless weather reports? APRSW and APRSI would be ideal.

(5) How is a station to respond to a directed query for which it has no information. For example, suppose that a station is queried for its status, and no status message has been entered? Likewise objects and position.

(6) I would like to see a statement that a station should accept, without crashing, unrecognized query types. This would facilitate expansion of the query list while insuring that existing software does not balk at the new types.

(7) The format does not indicate HOW a station is to respond if it has not heard a the station specified in an APRSH query.

(8) The format does not indicate HOW a station is to repsond to an APRSD query if it has heard NO direct stations.

(9) The format does not indicate HOW a station is to repsond to an APRSM query if it has no unacknowledged or undelivered messages for the querying



station.

(10) How is an APRST query to be answered in the light of WIDEn-N digis? This is especially significant where the originating station might have used WIDE5-3 in its unproto digi list.

Thanks for considering these items....

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:54:35 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07830  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:54:32 -0600 (CST)  
Message-Id: <LYR11589-56578-1999.12.24-00.09.36--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:54:12 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Weather format  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l0313030cb488ba2ae14f@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings again...

Sorry for this flood of questions. I've been on a trip and spent a lot of time spec reading!

Suppose that one wants to make a manual weather report, say hourly rain during a bad storm. What is used for the software type and equipment type? Its not RSW, its not any of those fancy things. Its a plain old rain gauge. I can visualize a number of other params also.

And, not only is there no "software type" or equipment unit specifier, there is no wind direction or speed or any of those other things.

How should this kind of thing be handled???

Again, thanks.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                      Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 23 23:59:15 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07931  
for <lyris.aprsspec@tapr.org>; Thu, 23 Dec 1999 23:59:11 -0600 (CST)  
Message-Id: <LYR11589-56579-1999.12.24-00.14.22--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 23 Dec 1999 22:58:58 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Data Type Identifiers  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <10313030db488bb50266d@[198.106.196.210]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello again,

On page 16, the ICQ messaging is given the netname APICxx. Yet, nowhere is ICQ discussed.

Should this be given a "future" designation?

Thanks.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 28 17:02:39 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA07997  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 28 Dec 1999 17:02:37 -0600 (CST)  
Date: Tue, 28 Dec 1999 17:02:22 -0600 (CST)  
From: Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)>  
Message-Id: <LYR11589-57040-1999.12.28-17.17.58--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] GENERAL: APRS Interoperability  
In-Reply-To: <LYR11595-48449-1999.11.08-08.52.17--  
[salo@networkcs.com](mailto:salo@networkcs.com)@lists.tapr.org>  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <199912282302.RAA82227@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

I finally completed my first pass through the latest draft of the APRS Protocol Reference document.

My primary observation is that Ian had done a tremendous job in compiling and editing the information about the APRS protocol contained in this document. We all owe Ian our gratitude for taking on this task.

My secondary observation is that I am not confident that the information is precise enough to enable me to unambiguously determine whether a specific implementation conforms to the APRS protocol specification. The following thoughts might be useful.

- o I suggest that language be added similar to: "The primary objective of this document is to foster the development of interoperable implementations of the APRS protocol." This notion will help us judge whether the document is complete, both now as we review the document and in the future as implementations and test suites are developed against the document.
- o I suggest that language be added to define a "conformant" APRS implementation. Perhaps, "An APRS implementation is said to 'conform' to this protocol reference if it exhibits all of the behaviors that are labeled as "must" and exhibits none of the behaviors labeled as "must not". This statement implies that the terms "must" and "must not" need to be used carefully, but I suppose that is what is necessary to achieve the interoperability objective.
- o Stated in the converse, I assume that if I create an APRS message that conforms to the protocol reference, and if an APRS implementation fails to properly receive that message, then this APRS implementation does not conform to the specification. (See, for example, RFC 1025, "TCP and IP bakeoff".)
- o I suggest that language be added that says that this document is the ultimate specification of the APRS protocol. In particular, any differences between this document and existing implementation or APRS certification test suites must be resolved in favor of the (possible amended) APRS protocol reference.
- o It may be helpful to specify the minimum behavior that an APRS implementation must exhibit to be considered a conformant implementation. For example, must a conforming APRS implementation be able to send all of the specified message types? Only some? Which ones? Receive all of the message types? Receive any of the message

types, (e.g., a tracker)? What does it mean to "receive" a message, (simply not blow up)?

- o I would consider replacing all unqualified uses of the term "APRS" terms such as "APRS system", "APRS station", "APRS network" or "APRS protocol". More precise use of these terms may help clarify which components are responsible for specific behaviors.

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 29 14:32:27 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA27348  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 29 Dec 1999 14:32:24 -0600 (CST)  
From: Richard <[richard@ontario.aprs.net](mailto:richard@ontario.aprs.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] WX temp reporting  
Date: Wed, 29 Dec 1999 15:27:32 -0500  
Content-Type: text/plain  
MIME-Version: 1.0  
Message-Id: <LYR11589-57140-1999.12.29-14.47.44--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Content-Transfer-Encoding: 8bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <99122915320401.01510@cpu1894>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Anybody know how temperatures are sent using native APRS format?  
I assume it is t-01 though t-99, but I like to check first.

--

Richard, VE3UNW

<http://cpu1894.adsl.bellglobal.com>

<http://ontario.aprs.net>

<http://cpu1894.adsl.bellglobal.com/richard.asc> PGP Public Key

"Each rhyme I regard"

- Hiram Edgar Cheery, from "Dreamy High Career", 1999

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 5.0i for non-commercial use

MessageID: kxBkFdGgxAGSJxw14qT44nM7o2+noUJa

iQA/AwUBOGphtAOjYzRcDawyEQJgHQcdHQR4Gz124MgRcKGXT5ecSs4RPU4AoKM0

vkRZ3Z2LTcj14yyoTGP59jL

=iuCU

-----END PGP SIGNATURE-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 16:31:45 1999

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26410

for <lyris.aprsspec@tapr.org>; Thu, 30 Dec 1999 16:31:42 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 30 Dec 1999 17:30:23 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Weather format

In-Reply-To: <LYR11586-56578-1999.12.24-00.09.36--

bruninga@nadn.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-57328-1999.12.30-16.47.02--

lyris.aprsspec@tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.05L.9912301728450.22354-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Thu, 23 Dec 1999, Jim Wagner wrote:

> And, not only is there no "software type" or equipment unit specifier,  
> there is no wind direction or speed or any of those other things.

>  
> How should this kind of thing be handled???

All values may have "null" values. Just enter SPACES, or DOTS...  
I prefer dots as in T...R...P... etc....

Bob

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 16:36:44 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26565  
for <lyris.aprsspec@tapr.org>; Thu, 30 Dec 1999 16:36:40 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 30 Dec 1999 17:35:59 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Query Questions  
In-Reply-To: <LYR11586-56574-1999.12.24-00.05.51--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-57329-1999.12.30-16.52.08--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912301732270.22354-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 23 Dec 1999, Jim Wagner wrote:

> (4) I would like to see directed IGATE and WX queries. To me, they make a  
> lot of sense. For example when I really just want the wx report from a  
> specific Eastern Washington station, why should the network be flooded with  
> a dozen or more useless weather reports? APRSW and APRSI would be ideal.

Since the original "complete" WX report is just part of the stations POSIT, the Query POSIT will always get you a complete WX report from any APRSdos or other software reporting in the "complete" format. Software that uses the "positionless" WX format should respond to the POSIT query with both a POSIT and a "positionless" WX packet.

> (10) How is an APRST query to be answered in the light of WIDEn-N digis?  
> This is especially significant where the originating station might have  
> used WIDE5-3 in its unproto digi list.

Same as any other. It just sends back a copy of the packet header "as received".

Bob

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 16:41:00 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26673  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 30 Dec 1999 16:40:58 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 30 Dec 1999 17:40:11 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Message Questions  
In-Reply-To: <[LYR11586-56569-1999.12.24-00.02.40--bruninga#nadn.navy.mil@lists.tapr.org](mailto:LYR11586-56569-1999.12.24-00.02.40--bruninga#nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-57330-1999.12.30-16.56.22--lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-57330-1999.12.30-16.56.22--lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.9912301736200.22354-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk



On Thu, 23 Dec 1999, Jim Wagner wrote:

> In the description of Messsage Acks on page 58, it says nothing about ack  
> timing. Is ACK sent once for each message received or are multiple ACKs  
> sent?

On the APRSSPEC list, I posted a suggested additional paragraph describing  
all the various ACK techniques currently in use to improve ACK  
reliability.

> [Concerning MESSAGE GROUPS]

> Does this mean that some arbitrary "callsign" is chosen as a "group  
> callsign" and members of the group assign themselves to respond to said  
> callsign?

They dont "respond" other than capturing that message as if it were to  
them. (with no ACK)

> Or, does it mean that a filter list is established and that a  
> message addressed to anyone on the list is read as a message?

No. The former...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 16:47:36 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26846  
for <lyris.aprsspec@tapr.org>; Thu, 30 Dec 1999 16:47:33 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 30 Dec 1999 17:46:48 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Mic-E ABC bits  
In-Reply-To: <LYR11586-56563-1999.12.24-00.00.50--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-57331-1999.12.30-17.03.01--  
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912301745290.22354-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 23 Dec 1999, Jim Wagner wrote:

> Is it required that all one bits in the ABC set be from the same Custom or  
> Standard group?

No

>

> For example, suppose that "E" were used to indicate Custom and 40 degrees.  
> Would the character for 5 degrees have to be "F" or could it be "U"?

It might be neither. This is why all it takes is ONE byte to have a  
custom bit set to turn it in to a CUSTOM message...

k

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 16:50:07 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26934  
for <lyris.aprsspec@tapr.org>; Thu, 30 Dec 1999 16:50:03 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 30 Dec 1999 17:49:11 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Mic-E Destination Address detection  
In-Reply-To: <LYR11586-56559-1999.12.24-00.00.22--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-57332-1999.12.30-17.05.19--  
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.9912301747060.22354-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 23 Dec 1999, Jim Wagner wrote:

> How does one distinguish a Mic-E destination address from one of the usual  
> APRS net names?  
>  
> Please don't tell me that the parser has to wait until discovering the  
> message type later in the packet!!!

Yep, you parse the TYPE first. Then you decide whether you need to keep the TOCALL data...

> Also, is it correct, as it appears, that if one has any net name filtering  
> on, that most Mic-E packets will be lost?

No, all Mic-E packets are passed through....  
Notice that on the Kenwood radios that MESSAGES, however, will use the appropriate ALT-NET call and so will be subject to filtering...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Dec 30 21:34:14 1999  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA04794  
for <lyris.aprsspec@tapr.org>; Thu, 30 Dec 1999 21:34:14 -0600 (CST)  
From: Richard <richard@ontario.aprs.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: WX temp reporting  
Date: Thu, 30 Dec 1999 22:32:09 -0500  
Content-Type: text/plain  
References: <LYR11598-57140-1999.12.29-14.47.44--

richard#ontario.aprs.net@lists.tappr.org>  
In-Reply-To: <LYR11598-57140-1999.12.29-14.47.44--  
richard#ontario.aprs.net@lists.tappr.org>  
MIME-Version: 1.0  
Message-Id: <LYR11589-57364-1999.12.30-21.49.26--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Content-Transfer-Encoding: 8bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <99123022333901.10936@cpu1894>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Never mind, I got my answer. -01 --> -99 is correct.

On Wed, 29 Dec 1999, Richard wrote:

>Anybody know how temperatures are sent using native APRS format?

>I assume it is t-01 through t-99, but I like to check first.

>

--

Richard, VE3UNW

<http://cpu1894.adsl.bellglobal.com>

<http://ontario.aprs.net>

<http://richard.unplug.org/richard.asc> PGP Public Key

"Each rhyme I regard"

- Hiram Edgar Cheery, from "Dreamy High Career", 1999

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 5.0i for non-commercial use

MessageID: a7pLFxQEREWX3TD8JLPxVr0tHKMTJHuc

iQA/AwUBOGwWAwOjYzRcDawyEQKKcACgruXTVXh7cTSPx09TIwgbZQhXtWsAnRW3

GikZU65lR1uuGSARNqPyG176

=7wfF

-----END PGP SIGNATURE-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 31 08:38:48 1999  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA05729  
for <lyris.aprsspec@tappr.org>; Fri, 31 Dec 1999 08:38:47 -0600 (CST)  
Message-ID: <LYR11589-57428-1999.12.31-08.54.14--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 31 Dec 1999 09:48:20 -0500  
From: kf4chg <kf4chg@atlantic.net>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] leave-aprsspec-11602B@lists.tappr.org  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <386CC234.369EB48C@atlantic.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

leave-aprsspec-11589P@lists.tappr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 3 15:14:01 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA20873  
for <lyris.aprsspec@tapr.org>; Mon, 3 Jan 2000 15:13:58 -0600 (CST)  
Message-ID: <LYR11589-58030-2000.01.03-15.29.23--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] FW: APRS Protocol  
Date: Mon, 3 Jan 2000 16:16:40 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B69A2@SHPMAIL>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I Goofed... should have sent this here instead of APRS SIG... well, I admit  
I make mistakes and am willing to both admit it and make an effort to  
rectify them....

> In the spirit of the new century (yeah... I know it REALLY doesn't start  
> till next year) and because I was out of the country for the EXTREMELY  
> SHORT comment period.... I'd like to add my 2 cents and advocate nothing  
> but SI units for any NEW or changed protocol values. Also, that there be  
> a stated "INTENT" by "AUTHORS" to migrate everything to SI.... In my  
> review I certainly see the various different archaic and North American  
> concentric measurement usage's as a hindrance for the rest of the world,  
> and given the technical nature of Amateur Radio... (heck it's 80 meters, 2  
> meters... MegaHertz all SI - even here in this part of North America) it  
> would appear to be an appropriate forward leaning approach to "doing  
> business". It might also appear to be of benefit to evolve to a protocol  
> that isn't so constrained by the multiplicity of proprietary hardware data  
> formats... that this "Protocol" should evolve to be vendor neutral... at  
> the source/origin the data structure should be rationalized to conform to  
> a simple vendor neutral SI compliant standard that doesn't have to  
> proprietarily encode AND IDENTIFY the vendor generating the data  
> structure. Given the likelihood of vendors changing their hardware,  
> software, data structure, or even getting out of a particular product line  
> (or going out of business)... it's foreseeable that in the not too distant  
> future we'll run out of variant identifiers....  
>

> We have the current usage... nothing can change that... and kudo's to  
> those who made a good effort to make APRS something good... but as we

> evolve and expand... let us be more in tune with the rest of the planet -  
> a vendor neutral SI compliant Protocol..... please. . . . .  
>  
> ALOHA  
> AH6LS

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 5 01:31:22 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA17378  
for <lyris.aprsspec@tapr.org>; Wed, 5 Jan 2000 01:31:20 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-58352-2000.01.05-01.46.55--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 5 Jan 2000 00:30:56 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Unclear text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b498a03f210f@[198.106.198.81]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings -

In my copy of APRS101g.pdf, at the bottom of page 39 concerning Mic-E  
encoding/decoding, the very last line reads:

3. subtract 80 if 180 B D D 189.

This is displayed on a Mac. I suspect that font-substitution has messed it  
up. Is it supposed to read

3. subtract 80 if 180 <= D <= 189 ?

If so, I would suggest the use of either (a) more universal font or (b) the  
avoidance of non-ASCII characters.

There are similar problems throughout the top half of the next page, page 40.

And, we also have the problem previously reported: The character used to signify "Current GPS Data" at the bottom of page 39 (and a few other pages) does not correspond to any character in the ASCII table, appendix 3. That is, if you copy that character into the Acrobat Find dialog, then search for other instances of that character, there is no instance of that character in Appendix 3! Yes, someone told me what that character is, but the Appendix 3 does need correction.

Which brings up a final question:

Just what is meant by "Old GPS data" and "Current GPS data"? Does "old" refer to data which is more than some specific age? If so, what age? Please clarify in the text. What is the expected software behavior with "Old GPS Data". It can certainly be valid if its in a vehicle that has not moved since it was Current GPS data, if that, in fact, is what it is supposed to represent.

Many thanks....

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 5 05:11:37 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA00891  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 5 Jan 2000 05:11:37 -0600 (CST)  
Message-ID: <LYR11589-58358-2000.01.05-05.27.21--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Date: Wed, 5 Jan 2000 10:58:35 +0000



To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Unclear text  
In-Reply-To: <LYR11659-58352-2000.01.05-01.46.55--ian@dowrmain.demon.co.uk@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <d20nuKAbPyc4Ew54@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-58352-2000.01.05-01.46.55--ian@dowrmain.demon.co.uk@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>Greetings -

>

>In my copy of APRS101g.pdf, at the bottom of page 39 concerning Mic-E  
>encoding/decoding, the very last line reads:

>

>3. subtract 80 if 180 B D D 189.

>

>This is displayed on a Mac. I suspect that font-substitution has messed it  
>up.

Has anyone else experienced this (with a Mac or otherwise)? I was particularly careful to include ALL the document's fonts in the PDF file, to ensure complete independence from the PDF reader.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 5 22:36:23 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA05963  
for <lyris.aprsspec@tapr.org>; Wed, 5 Jan 2000 22:36:23 -0600 (CST)  
Message-ID: <LYR11589-58521-2000.01.05-22.52.00--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 05 Jan 2000 23:45:47 -0500  
From: kf4chg <kf4chg@atlantic.net>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] leave-aprsnews-10226P@lists.tapr.org  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38741DFB.31DA8D9D@atlantic.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

leave-aprsnews-10226P@lists.tapr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 6 23:55:58 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA11323  
for <lyris.aprsspec@tapr.org>; Thu, 6 Jan 2000 23:55:55 -0600 (CST)  
Message-Id: <LYR11589-58822-2000.01.07-00.11.36--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 6 Jan 2000 22:55:16 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Re:Unclear Text  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130301b49b2ffd861d@[198.106.196.77]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Group -

My "complaint" about text originated from Acrobat 3.0. I've never seen any reason to "upgrade" until now. However, that does not invalidate my complaint.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 10 21:51:29 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA12201  
for <lyris.aprsspec@tapr.org>; Mon, 10 Jan 2000 21:51:25 -0600 (CST)  
Message-Id: <LYR11589-59675-2000.01.10-22.07.18--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Mon, 10 Jan 2000 20:51:02 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] APRS: Compulsion vs Permission??  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b4a058357b3d@[198.106.196.38]>

Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

The APRS standard is a good one. However, there are some areas where the author has some strong differences of opinion. These areas do not involve the protocol, as such. Instead, they involve issues of author and user freedom. These points that I mention may seem nit-picky, or overly confrontative. I intend them as neither. It is simply that when a "you must..." is written into a standard, it becomes just that, compulsory. Where the over-the air protocol is concerned, that is very important. When it has to do with operator choice or author's choice of features, then it should never be in the specs. Yes, to "it is recommended..." or "it is desirable....", but not "you must...". Here are my issues:

=====

On page 9, under the topic of "Net Cycle Time", the standard says: "3. All stations, even fixed stations, should beacon their position at the net cycle time rate. In a stress situation, stations are coming and going all the time. The position reports show not only where stations are without asking, but also that they are still active."

It is the author's opinion that users should be able to control their beacon interval. Software I am writing offers a beacon interval named "Net Cycle" (and thats the default setting). But, it also offers other fixed intervals up to 60 minutes.

=====

On page 58, under the topic of messages, the standard says: "An APRS receiving station can specify special Message Groups, containing lists of callsigns that the station will read messages from (in addition to messages addressed to itself). Such Message Groups are defined internally by the user at the receiving station, and are used to filter received message traffic.

The receiving station will read all messages addressed to ALL, QST or CQ."

That last line does not say "should" or "can"; it says "WILL". The author believes that users have the right to determine which messages they read. Software I am writing accepts all messages, no matter who the addressee is. All messages appear in a "Message Window", if its open. And, if one opens a Message Window later, all messages within the last 24 hours of operation are shown. It is also possible for the operator to request an alert for messages addressed to ALL, QST, and CQ. But, it is the operator's choice whether or not to do this. I defend the operator's right to make this choice.

=====

On page 59, under the topic of bulletins, the standard says: "Users must be alerted on arrival of a new bulletin or announcement."

Again, it is the author's belief that the user should have control over what is seen and what is not. To that end, my program allows the user to choose whether or not to be alerted for either bulletins or announcements. That decision should be up to the user.

=====

Also, on page 59, under the topic of bulletins, the standard says: "A receiving station can specify a list of bulletin groups of interest. The list is defined internally by the user at the receiving station. If a group is selected from the list, the station will only copy bulletins for that group, plus any general bulletins. If the list is empty, all bulletins are received and generate alerts."

Again, I believe that it should be the user's choice to choose whether or not general bulletins will be seen when operating under a group bulletin filter. And, it should be the operator's choice whether or not to be presented with any alert for any conditions. Furthermore, this section describes HOW a bulletin filter list should work, while the author reserves the right to do the filter list as he sees fit.

=====

On page 60, under the topic of National Weather Service Bulletins, the standard says: "APRS recognizes special National Weather Service bulletins with addresses of the form NWS-xxxxx."

I believe that it is up to the software writer to determine whether or not NWS bulletins are recognized. In countries other than the United States, NWS bulletins do not, after all, even exist! I believe that it is my right to include, or not include NWS bulletin recognition; let the user decide in the "marketplace" whether or not this is appropriate!

=====

On page 61, under the topic of Station Capabilities, the standard says: "A station may set up a file containing a list of one or more Station Capabilities. These define attributes for the station. When queried for its capabilities, the station responds by transmitting the contents of the file, preceded by the < Data Type Identifier."

As discussed by this writer previously in the list, the author believes that it is up to the software writer to determine HOW Station Capabilities are

managed; it need not be done using  
an external file.

=====

On page 62, under the topic of Queries, the standard says: "All stations inside the specified coverage circle should respond with a Position Report and a Status Report."

It is the author's belief that station operators should have control over whether or not to respond to queries. To that end, my software allows operators to select a variety of conditions specifying which queries, if any, to respond to.

=====

On page 72, under the topic of Other Packets, the standard says: "Any packet that does not meet any of the formats in this document are assumed to be a status beacon and will show up as status as long as no other properly formatted status has been received. This allows APRS to accept any UI packet addressed to the typical beacon address to be captured as a status message. Typical TNC ID packets fall into this category."

This statement is immediately contradicted by a later paragraph: "Programs can decide to handle these, or ignore them, but they must be able to process them without ill effects."

Again, consistent with the author's position on earlier points, this matter should be up to the author and the user. My software DOES NOT display ID packets as "status" messages. They are shown in a Log Window, but do not appear in the Status Window. Again, this is a "marketplace" issue.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jan 10 23:49:03 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA17524  
for <lyris.aprsspec@tappr.org>; Mon, 10 Jan 2000 23:49:02 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 11 Jan 2000 00:47:55 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: APRS: Compulsion vs Permission??  
In-Reply-To: <LYR11586-59675-2000.01.10-22.07.18--  
bruninga#nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-59700-2000.01.11-00.04.44--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.10001110024450.25569-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

The APRS WG will address Jim's concerns, but since Jim has stated that he is producing code that will not abide by the paragraphs he noted in the standard, I think it useful to maybe reply to his comments briefly.

Jim raises some of the usual concerns for author freedom we hear from new authors and it points out how easy it is to look at APRS as a simple list of formats instead of a "communications system". APRS is for tactical real-time communications at special events, or emergencies, or "situations". Users, including late arrivals and newbies to the NET in progress must have a common set of minimum expectations.

I agree, that Jim has found some that may need better wording, but three of them I feel uneasy about:

Imagine how useful Software X stations will be at your scene in your net:

- 1) You cannot send an urgent message to ALL or QST and expect any of Software X users to see it. You cannot ask for radio silence, a quick QSY, or an urent call to everyone in the net. SoftwareX's users may or may not see the message.

2) At an event, or situation, you can make certain assumptions about the "presence" of stations based on their frequent situation reporting (their Posit and STATUS at the minimum net-cycle time. However, Software X stations have decided they will only beacon at a 60 minute or 2 hour or once every 4 hour rate. (Some people even have said once a day is OK!) Thus, they are invisible to the net... possibly until after the crisis is over...

3) Net control communicates to most users on the net via general Bulletins. OOPS, except for software X stations who have disabled general bulletins and so are unaware of these urgent announcements to the everyone on frequency.

These would concern me greatly if I were trying to use APRS at a situation...

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 11 03:49:31 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA07961  
for <lyris.aprsspec@tapr.org>; Tue, 11 Jan 2000 03:49:29 -0600 (CST)  
Message-ID: <LYR11589-59729-2000.01.11-04.05.27--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Tue, 11 Jan 2000 04:48:58 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS: Compulsion vs Permission??  
References: <LYR11610-59700-2000.01.11-00.04.44--  
propnet@greeceny.com@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <387AFC8A.3AD93501@greeceny.com>



Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

Bob makes a good point. If one plans on associating a future product with the label of "APRS" they must include certain core functionality.

This appears to be outlined in the "Charter of the Working Group":

"APRS, developed by Bob Bruninga, WB4APR, is an Amateur Radio digital infrastructure for realtime and tactical digital communications. It is designed to provide communications during emergencies, but it is recognized to support routine round-the-clock global communications as well. Its applications include mapping, messaging, telemetry, and tracking. It uses a standard protocol over RF links, supplemented by alternate communication methodologies."

If I understand this correctly, this means that one *must* include a full compliment of code to support:

1. communications during emergencies
2. routine global communications
3. mapping
4. messaging
5. telemetry
6. tracking

Programs that exhibit a personality that is in conflict with the above stated purpose of APRS would place themselves in violation of the APRSpec and should not be certified (meaning, I assume, that the term "APRS" could not be referenced anywhere in the discussion or advertisement of the product).

As such, these developers would severely restrict the audience for their product, but - more importantly - failure to build-in this support could, potentially, place human life at risk.

On the other hand...there is no reason to restrict development to the above. There are plenty of folks who want to experiment with digital communications in non-traditional ways (<http://go.to/propnet>). For them, disaster communications is *not* the purpose. They are simply experimenters. *If* one wants to fly the "APRS Banner" in conjunction with software they are developing, they must include core functions. Anything in *addition* to this is "cream".

Of course, this is simply my take on the thread; put this together with \$0.99 and you get a Big Gulp at your corner MiniMarket. :o)

Ev, W2EV  
--

PropNET: A digital wireless  
data network designed to  
plot band openings in near  
real-time.     Intreagued?  
<http://go.to/propnet>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 11 10:06:58 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA17850  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 11 Jan 2000 10:06:55 -0600 (CST)  
Message-ID: <LYR11589-59758-2000.01.11-10.22.53--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Tue, 11 Jan 2000 11:06:32 -0500  
From: csuprin@mitre.org (Charles Suprin)  
Organization: The MITRE Corporation  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: APRS: Compulsion vs Permission??  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <387B5507.62DCA46D@mitre.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I have a couple of things to say.

Mapping is not an action of the protocol. Only something which can be done with the data acquired from communicating with this protocol. Now one might want to specify a datum to use to allow meaningful maps but otherwise mapping is not part of the communication chain. For instance the D7 does not map stations.

As for the certification of a product as APRS, if we are going to look into this, then the standard is going to need to be clearer about what is required and what is optional. Is a piece of software that emulates a Mic-E Not going to be an approved version? Or will it be disqualified

because it cannot receive messages and as such cannot notify the user?  
Is there going to be a special category for the Mic-E? If so is this  
the right way to write a standard?

Jim has the presented two items in his post. The first is that he  
disagrees with some of the will and must statements and prefers not to  
implement them. The second is that he disagrees with some of the should  
and can statements and therefore will not implement them. The first is  
an issue with the standard. This is something he needs to work out  
through the standard body. The second is perfectly allowable under the  
standard. If the standard body does not like this then the standard  
should be changed.

Just my 2 pennies.

Charles Suprin

Not comment of my employer.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 11 11:10:58 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19788  
for <lyris.aprsspec@tapr.org>; Tue, 11 Jan 2000 11:10:53 -0600 (CST)  
Message-ID: <LYR11589-59772-2000.01.11-11.26.49--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Tue, 11 Jan 2000 12:10:07 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceney.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] APRS OSI Model Map needed?  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <387B63EF.64EB1422@greeceney.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Should the APRSpec include a "Flag Field" that identifies what "OSI Layer" that a particular protocol belongs to?

For instance...

...Identifying the packet-structure that a WX-Warning takes is a different level than what action a program is expected to take when it encounters same. Even then, does the program simply "send an alarm" (leaving the type of alarm up to the programmer?) or is the type of alarm defined as part of the application-level protocol?

Maybe a further definition of the APRSpec's charge is in order? If it is to deal simply with the structure of APRS packets, it seems that the base spec could be significantly simplified.

Let's also not forget that this discussion is v-e-r-y APRS(tm) specific. No other application of UI-Packets seems to be part of the charge of this working group. As such...in many ways, the application is driving the protocol, as opposed to defining an extremely open protocol that opens up UI-Packet application development.

This is not a criticism, simply an observation. and a point for consideration.

Ev, W2EV

--

PropNET: A digital wireless  
data network designed to  
plot band openings in near  
real-time. Intreagued?  
<http://go.to/propnet>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 11 16:59:24 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04384  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 11 Jan 2000 16:59:24 -0600 (CST)  
Message-ID: <LYR11589-59839-2000.01.11-17.15.26--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Date: Tue, 11 Jan 2000 17:59:21 -0500  
From: "Mark Doore (K3RAM)" <[md@webtrek.com](mailto:md@webtrek.com)>  
Reply-To: [md@webtrek.com](mailto:md@webtrek.com), [mark\\_doore@freddiemac.com](mailto:mark_doore@freddiemac.com)  
X-Accept-Language: en

MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: APRS OSI Model Map needed?  
References: <LYR11729-59772-2000.01.11-11.26.49--md#webtrek.com@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <387BB5C9.518D0BAD@webtrek.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I have not been following the spec discussion in great detail, but would like to second that there is market for using UI-packets without APRS. There are a couple packages used by ARES/RACES in VA called ARESPACK and ARESDATA which are primarily for messaging and db query. I would be hoping to see these packages rewritten to use UI-packets only in place of current connect-type communication. That would potentially make way for replacing the MD EOC-to-EOC tcp/ip network with a UI network, and would also allow for specific APRS traffic to be gated from 144.390 onto the MD EOC packet freq. Then can network PCs in EOCs to run APRS or ARESPACK or ARESDATA or ..., utilizing a single tnc/radio/freq.

73, Mark/K3RAM

"Ev Tupis (W2EV)" wrote:

>  
> Should the APRSpec include a "Flag Field" that identifies what "OSI  
> Layer" that a particular protocol belongs to?  
>  
> For instance...  
> ...Identifying the packet-structure that a WX-Warning takes is a  
> different level than what action a program is expected to take when it  
> encounters same. Even then, does the program simply "send an alarm"  
> (leaving the type of alarm up to the programmer?) or is the type of  
> alarm defined as part of the application-level protocol?  
>  
> Maybe a further definition of the APRSpec's charge is in order? If it  
> is to deal simply with the structure of APRS packets, it seems that the  
> base spec could be significantly simplified.  
>  
> Let's also not forget that this discussion is v-e-r-y APRS(tm)  
> specific. No other application of UI-Packets seems to be part of the

> charge of this working group. As such...in many ways, the application  
> is driving the protocol, as opposed to defining an extremely open  
> protocol that opens up UI-Packet application development.  
>  
> This is not a criticism, simply an observation. and a point for  
> consideration.  
>  
> Ev, W2EV  
>  
> --  
> PropNET: A digital wireless  
> data network designed to  
> plot band openings in near  
> real-time. Intreagued?  
> <http://go.to/propnet>  
>  
> ---  
> You are currently subscribed to aprsspec as: [md@webtrek.com](mailto:md@webtrek.com)  
> To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)

--  
Mark Doore (K3RAM) [md@webtrek.com](mailto:md@webtrek.com)  
Voice: 301-572-2385/2380 Fax: 301-572-2358 Pager: 703-721-4236  
Freqs: 443.450+, 147.225+, 147.540, 444.250+, 445.975, 146.955-  
APRS: 144.390 K3RAM, N3SCU, K3RAM-1, K3JNT  
Web: <http://www.webtrek.com/md>  
My Car at: <http://www.aprs.net:8000/k3ram>  
Ondine's: <http://www.aprs.net:8000/n3scu>  
and Dad's: <http://www.aprs.net:8000/k3jnt>

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tappr.org](mailto:lyris.aprsspec@tappr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)

From bounce-aprsspec-11589@lists.tappr.org Tue Jan 11 21:26:53 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA12901  
for <[lyris.aprsspec@tappr.org](mailto:lyris.aprsspec@tappr.org)>; Tue, 11 Jan 2000 21:26:49 -0600 (CST)  
Message-Id: <LYR11589-59878-2000.01.11-21.42.44--  
[lyris.aprsspec#tappr.org@lists.tappr.org](mailto:lyris.aprsspec#tappr.org@lists.tappr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 11 Jan 2000 20:26:26 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tappr.org](mailto:aprsspec@lists.tappr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Re: APRS - Compulsion vs Permission  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>

List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130301b4a1a482bd26@[198.106.196.21]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Bob -

Your concerns are well noted. However, I hasten to point out, many folks leave their APRS computers on 24 hours per day, whether they are there or not. Hence, none of these folks are able to respond, personally, in the timely manner you suggest that a "situation" requires. So, what's the difference?? They cannot exercise "net silence".

There are no requirements in the protocol that certain behavior be exercised in certain situations. How can you imply such behavior without explicitly stating it in the protol. Lacking such a protocol statement of behavior, you cannot expect the action you seem to expect (but which I do not).

Would it not be best to have stations that respond automatically, perhaps as a result of certain query requests, rather than expecting undefined personal action by undefinded persons who may not be at a keyboard to take the undefinded action??

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 12 00:25:05 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA25907  
for <lyris.aprsspec@tapr.org>; Wed, 12 Jan 2000 00:25:03 -0600 (CST)  
Message-Id: <LYR11589-59914-2000.01.12-00.40.59--

lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 11 Jan 2000 23:24:41 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Space Weather?  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130304b4a1cc150ace@[198.106.196.47]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings everyone,

On page 16, in the "APRS Data Type Identifiers", there is reference to the APRS data type "." for "Space Weather". Like the reference in the same table to "Shelter Data" ("+"), there is no further discussion of this data type.

Since this document is supposed to represent current practice, should not BOTH "Space Weather" and "Shelter Data" be removed from the table? If folks want these symbols reserved for specific future use, then perhaps the table entries should be "reserved for Space Weather" and "reserved for Shelter Data"?

Many thanks and keep up the great work.

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org



From bounce-aprsspec-11589@lists.tappr.org Wed Jan 12 00:56:06 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA26397  
for <lyris.aprsspec@tappr.org>; Wed, 12 Jan 2000 00:56:05 -0600 (CST)  
Message-Id: <LYR11589-59917-2000.01.12-01.11.51--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 11 Jan 2000 23:55:18 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] My Point  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <l03130305b4a1cfdcee30@[198.106.196.47]>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Greetings everyone...

I hope that I have not stirred things up too much. That was not my intention.

My intention was, and is this: If certian operational features are going to be required for stations (not software, but stations) in an APRS environment, then it MUST be spelled out in the standard. The following statment from the charter of the working group has been quoted:

"APRS, developed by Bob Bruninga, WB4APR, is an Amateur Radio digital infrastructure for realtime and tactical digital communications. It is designed to provide communications during emergencies, but it is recognized to support routine round-the-clock global communications as well. Its applications include mapping, messaging, telemetry, and tracking. It uses a standard protocol over RF links, supplemented by alternate communication methodologies."

Unfortunately:

(1) This is not part of the standard, and its the standard that counts, not the charter.

(2) Nothing I have seen guarantees STATION performance, even with software written by Mr. Bruninga. It depends on action by the station opertor, and if there is no operator present, then performance will fail.

If specific station behavior is to be required in order to operate under the banner of "APRS", then that behavior MUST be spelled out in the standard. Otherwise, it becomes a personality game - who's software gets the stamp of

approval and who misses? You MUST NOT stop at mere software performance; you MUST spell out what has to be done by all operating stations.

Very sincerely, I do not believe that the performance described by Mr. Bruninga is achievable with software written by anyone at the present time. It depends on operators. If emergency communication is the penultimate goal, as Mr. Bruninga seems to suggest, then it seems appropriate to me that this draft should be shelved, immediately, and the group should proceed with all due haste to design the protocol enhancements required to achieve this.

Here is an example of something that might achieve this: A query or other message requiring all APRS stations to change, automatically, to "disaster mode" (with a well-stated set of operating requirements). Perhaps there could be several "event levels" ranging from "disaster" (with one set of requirements) to "warning" to "event" to "normal". I would be more than happy to build this, or anything else which would guarantee STATION performance, into software I am writing, so long as it is spelled out in the standard.

Lacking a clear direction to achieve the goal stated in the charter, then the standard should be made more permissive in all matters other than message format.

Sincerely,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org    Wed Jan 12 09:12:59 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
      by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA18673  
      for <lyris.aprsspec@tapr.org>; Wed, 12 Jan 2000 09:12:54 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Wed, 12 Jan 2000 10:08:02 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] APRS\*NET button  
In-Reply-To: <LYR11586-59917-2000.01.12-01.11.51--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-59964-2000.01.12-09.28.34--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GSO.4.05L.10001120949330.27221-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Jim,

Your last post hit the nail on the head. I have used the softer term "Common user expectations" in place of your "guaranteed performance", but I think we mean and feel the same objective.

As we evolved from a world of homogeneous APRSdos to an arena with more software writers it became harder and harder to meet the above objective. Thus as we wrote the SPEC, many of my original "it must" and "it should's" were forced out of the final wording in a spirit of compromise to just "get it out the door".

But your good questions have pointed out the problems that this kind of compromised wording will entail forever in the future... But maybe it might also lead us to a solution....

By now you have seen my suggestion for an APRS\*NET button and I think you independently suggested a similar "disaster mode" which might be the way to help us meet the above objective while also allowing for the more global 99% of the time use of APRS as a general comm tool...

As long as the APRS\*NET BUTTON is "obvious", is the start-up default, and can be easily found by a new user, then I think I am open to ideas on this kind of dual mode of operation...

de WB4APR, Bob

Actually, we dont need to change the 1.0 spec, since it is our atttempt to

codify exactly this fundamental level of common expectations.. But your suggestions to clean up the language to this intent are good ideas...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 00:32:32 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA29539  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 00:32:30 -0600 (CST)  
Message-Id: <LYR11589-60197-2000.01.13-00.48.24--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 12 Jan 2000 23:31:45 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Object Behavior  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130302b4a321c6aacf@[198.106.196.75]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings everyone....

What is the expected behavior of an object or item when the transmitting station just stops sending that information without "killing" it? For example, suppose that the station is reporting a thunderstorm location, and loses transmit capability as a result of the storm.

Should the map display fade out over a period of time? Or, should it just go away from the display after some time? If so, what time is reasonable before the fade begins or it disappears? If removal is not automatic, should the operator be able to remove a "stale" object? How would a user be able to know the age (since last transmission) of an object? How is it handled in other programs????

Many thanks to all of you,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 00:33:17 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA29591  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 00:33:14 -0600 (CST)  
Message-Id: <LYR11589-60198-2000.01.13-00.48.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 12 Jan 2000 23:32:20 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Message Group Clarification, please...  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130303b4a321e3b19b@[198.106.196.75]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello .....

Page 58 includes the following statement.....

=====

Message Groups

An APRS receiving station can specify special Message Groups, containing lists of callsigns that the station will read messages from (in addition to messages addressed to itself). Such Message Groups are defined internally by the user at the receiving station, and are used to filter received message traffic.

The receiving station will read all messages addressed to ALL, QST or CQ.

The receiving station will only acknowledge messages addressed to itself, and not any messages received which were addressed to any group callsign.

=====

I would like clarification to make sure what is being talked about with respect to "messages addressed to ALL, QST or CQ."

On the surface, it would appear from the location of this paragraph within the document that it concerns a packet of the type:

:ALL :This is an urgent notice to all APRS users in S. Florida

However, we ALSO have "destination callsigns" (page 13) of ALL, QST and CQ. Which are we talking about?

Further, it would seem that there is no functional difference between a bulletin and a "message to ALL". Since (page 59) "Users must be alerted on arrival of a new bulletin or announcement", does not a bulletin have the required effect, making the "ALL-message" superfluous?

Many thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 00:34:36 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA29691  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 00:34:35 -0600 (CST)  
Message-Id: <LYR11589-60199-2000.01.13-00.50.27--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Wed, 12 Jan 2000 23:33:46 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] The Genie Effect??  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130304b4a32217bdf3@198.106.196.75>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello, everyone -

My points concerning permission vs requirement of certain APRS operating conditions seems to have stirred a bit of a hornet's nest. Mr. Bruninga alludes to the possibility of not "approving" my software if it does not satisfy the conditions he deems necessary for emergency operation (thus, disallowing use of the trademark "APRS").

However, the genie already seems to be out of the bottle.

For example, the draft standard (page 59) requires: "Users must be alerted on arrival of a new bulletin or announcement".

How can this happen with a unit such as a transmit-only GPS position sender such as a "tracker"? There is no way that the user of such a device can be notified of anything, let alone an APRS bulletin or announcement. How can tracker software use the trademark name "APRS" and be so non-compliant?

More importantly, just what are the standards for approval for use of the trademark "APRS" and who sets those standards? Is it the (soon-to-be published) APRS standard? Or, is there another, never to be published, "standard" in addition to the published one, and existing only in Mr. Bruninga's head? If there is, will that standard be consistent, or will it change according to whether Bob Bruninga happens to "like" the applicant?

This is NOT to put Bob down. His contributions to APRS have been, and

continue to be, immense. But, this IS a very important question, not only for me, but for other developers coming along, unless, of course, the intention is to prevent new software from ever being written. I would hope that this is ludicrous, but recent commentary leads me to doubt that it is so.

Here is another, very closely related issue. Suppose that I go ahead with my software as it is presently written. Suppose, just for the sake of discussion, that I call it EPRS (Easy Position Reporting System) instead of the hoped-for easyAPRS. Suppose that I delete all documentation and software references to "APRS" and, instead, simply refer to "the protocol designed by WB4APR". Who is going to keep the two from being used in the same network? Is there an APRS-police which is going to say "this is our private network" and brand-X software is not allowed? Who, or what, is going to know? Who, or what, is going to enforce it?

Isn't it better to welcome the effort, and attempt, through persuasion and reason, to achieve the highest level of compatibility possible? Then, so long as the over-the-air STATION operation does not conflict catastrophically with other stations, label it "APRS-compatible" and call it good? And, again, who has the final say over whether or not it is "compatible"? And what criteria are to be used to determine this?

These are clearly difficult questions. But, they have to be addressed, because the content of the standards document is going to have a very large effect on the answers to the questions. And, the document contents will have a very big effect on what kind of compatibility there is. As I hope I have pointed out, its not THAT hard to create something that appears fairly compatible, and do it in such a way that it is attractive to users but not call itself exactly "APRS".

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org



From bounce-aprsspec-11589@lists.tappr.org Thu Jan 13 02:22:16 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA02377  
for <lyris.aprsspec@tappr.org>; Thu, 13 Jan 2000 02:22:15 -0600 (CST)  
Message-ID: <LYR11589-60210-2000.01.13-02.37.55--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Thu, 13 Jan 2000 03:20:42 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: The Genie Effect??  
References: <LYR11610-60199-2000.01.13-00.50.27--  
propnet#greeceny.com@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <387D8ADA.81AB04DA@greeceny.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Jim Wagner wrote:

> My points concerning permission vs requirement of certain APRS operating  
> conditions seems to have stirred a bit of a hornet's nest. Mr. Bruninga  
> alludes to the possibility of not "approving" my software if it does not  
> satisfy the conditions he deems necessary for emergency operation (thus,  
> disallowing use of the trademark "APRS").

Hi Jim,

To be fair, unless you received personal communication from Bob, it was  
me that suggested that certain functions be present in developed  
software, lest denial of the APRS trademark.

That was pure conjecture on my part. The APRS Working Group is still  
hot-and-heavy doing what they are doing. A future phase is the  
establishment of a "Certification Process". That hasn't been done yet,  
and doubt the details of your eMail have even been considered. (again,  
conjecture on my part)

Don't underestimate brand-name recognition in your quest to develop  
software. APRS is well known (and more so every day) in the US. If you  
are looking to market a successful product, I'm sure you've considered

the need to be directly associated with such a well known application. By the same token, because APRS is so well known, it becomes important to document its' definition (the work of the APRSwg) so as to assure the highest quality of its implementation.

Keep thinking outside of the box. It sounds like you've got some ideas that may really take off once the APRSpec has been defined!

Regards,

Ev, W2EV

--

PropNET: A digital wireless data network designed to plot band openings in near real-time. Intreagued?  
<http://go.to/propnet>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 07:53:20 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA18391  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 13 Jan 2000 07:53:19 -0600 (CST)  
Message-ID: <LYR11589-60232-2000.01.13-08.09.11--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
From: "Sadowski, Allan" <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] RE: Object Behavior  
Date: Thu, 13 Jan 2000 08:56:40 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6A01@SHPMAIL>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

JIM

EXCELLENT question... that I brought up as a wish/desire in the past... that if you didn't hear from a plotted object/station within a time "window" it

would gray out... and then at a second time threshold it would disappear... example... at two hours no new packets.. a plotted object/station would have it's icon go to gray... after 24 hours it would disappear from the screen....

Didn't result in much in the way of comments or feedback (other than a comment from one author that it would be implemented in the next version... and that's a half dozen versions back).. but hey... I didn't pay a whole heck of a lot for the versions I use....

Still... glad to see someone else see's the benefit/utility...

ALOHA  
AH6LS

> -----Original Message-----  
> From: Jim Wagner [SMTP:wagnerj@proaxis.com]  
>  
> What is the expected behavior of an object or item when the transmitting  
> station just stops sending that information without "killing" it? For  
> example, suppose that the station is reporting a thunderstorm location,  
> and  
> loses transmit capability as a result of the storm.  
>  
> Should the map display fade out over a period of time? Or, should it just  
> go  
> away from the display after some time? If so, what time is reasonable  
> before  
> the fade begins or it disappears? If removal is not automatic, should the  
> operator be able to remove a "stale" object? How would a user be able to  
> know the age (since last transmission) of an object? How is it handled in  
> other programs????  
>  
>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 08:20:23 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA19253  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 13 Jan 2000 08:20:21 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 13 Jan 2000 09:17:49 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>

X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Object Behavior  
In-Reply-To: <LYR11586-60197-2000.01.13-00.48.24--bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-60238-2000.01.13-08.36.25--lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GSO.4.05L.10001130902080.27280-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 12 Jan 2000, Jim Wagner wrote:

> What is the expected behavior of an object or item when the transmitting  
> station just stops sending that information without "killing" it? For  
> example, suppose that the station is reporting a thunderstorm location, and  
> loses transmit capability as a result of the storm.

Following responses for APRSdos:

> Should the map display fade out over a period of time? Or, should it just go  
> away from the display after some time? If so, what time is reasonable  
> before the fade begins or it disappears?

APRSdos fades any old STATION or OBJECT to dark gray 2 hours after last receipt (or time of OBJ/STN)

> If removal is not automatic, should the  
> operator be able to remove a "stale" object?

Yes, APRSdos lets stations kill any Station or Object from the map. But if the originator is still transmitting it, then it will re-appear

ALSO, there is a format for "Killing an object from everyone's system". This can only be done by the originating station of that Object.. Although anyone can take over reporting responsibility for any object, and once he has the responsibility, then he can kill it too... This is so someone else can globally kill someone else's long-dead object...

Once killed (in APRSdos), it still remains in all lists, but is marked as

a KILLED object...

> How would a user be able to know the age (since last transmission) of  
> an object? How is it handled in other programs????

All Objects have a time stamp. (You are right, that you dont know when such object was actually received last, unless you also keep a TIME HEARD). APRSdos used to keep both times, (ORIGINATORS TIME STAMP) and HEARD TIME STAMP). But since 50% of everyone's PC's were on the wrong date, time or time zone, I removed this about 3 years ago and now only keep one time stamp...

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 08:28:44 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA19551  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 08:28:41 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 13 Jan 2000 09:27:55 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Message Group Clarification, please...  
In-Reply-To: <LYR11586-60198-2000.01.13-00.48.43--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-60241-2000.01.13-08.44.40--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001130918430.27280-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 12 Jan 2000, Jim Wagner wrote:

> I would like clarification to make sure what is being talked about with  
> respect to "messages addressed to ALL, QST or CQ." [Example:]  
>  
> :ALL :This is an urgent notice to all APRS users in S. Florida

YES....

> However, we ALSO have "destination callsigns" (page 13) of ALL, QST and CQ.  
> Which are we talking about?

The former. The fact that we also include ALL, QST, and CQ in the "destination callsign list" is for backwards compatibility to conventional packet where CQ, for example is the default CALL for some TNC manufacturers and QST is used often from SAREX and MIR for BEACONTEXTS... We added ALL just as a third possibility...

> Further, it would seem that there is no functional difference between a  
> bulletin and a "message to ALL". Since (page 59) "Users must be alerted on  
> arrival of a new bulletin or announcement", does not a bulletin have the  
> required effect, making the "ALL-message" superfluous?

Here is the difference in APRSdos.

When an APRSdos user gets a new message, whatever he is doing is interrupted with an overlaid MY MESSAGES window. He must look at this before he can return to what he is doing. Thus almost guaranteed assurance that he reads his mail instantly.

When APRSdos gets a new Bulletin, he only "hears" "QST" in CW (once). And from then on, after each human keystroke (after every 15 seconds) the letter "B" is also sounded in CW. Thus, he is alerted to arrival of a new Bulletin, until he reads it, but it is not thrown in his face...

Hope that helps show the difference.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 13:01:29 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA28725  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 13:01:25 -0600 (CST)  
Errors-To: <jeff@aerodata.net>  
Message-ID: <LYR11589-60285-2000.01.13-13.17.26--

lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Thu, 13 Jan 2000 14:01:52 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: The Genie Effect??  
References: <LYR11601-60199-2000.01.13-00.50.27--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <387E2120.F00F1185@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Few comments. Also note I am only speaking my impressions on these issues.

Jim Wagner wrote:

> My points concerning permission vs requirement of certain APRS operating  
> conditions seems

Maybe I am oversimplifying things, but haven't you been asking for both a protocol document AND a operations guide? That in fact, your suggesting these two documents NOT be joined at the hip, so to speak? To me, it seems more the analogy between the FCC rules ("protocol") and the ARRL operating guide. Seems like a good division, if that is what you are suggesting. Is it?

> to have stirred a bit of a hornet's nest. Mr. Bruninga  
> alludes to the possibility of not "approving" my software if it does not  
> satisfy the conditions he deems necessary for emergency operation

So what? There are already a number of "unapproved" versions of APRS compatible display programs out there. You might not be invited to sit on the APRS-WG, but if you can live with that, code away. I'm not suggesting you NOT be compatible with the spec, but I also don't think this is going to make or break your product. You need to recognize a unfilled need, then fill it, for any product to be successful. This has already been borne out by more then one "uncertified" APRS compatible product (in fairness, I'm sure most of them will be become certified once

it is available.... but the point is you don't have to wait for the APRS-WG to do something).

> (thus,  
> disallowing use of the trademark "APRS").

Bob OWNS that trademark. It is his to do with as he pleases... if he doesn't like the color of your car, or the fact you prefer pencils over pens, he doesn't have to license it to you. Its his.

I think your confusing the label "APRS compatible" with "APRS". The WG will issue the "APRS compatible" certifications, while Bob will continue to hold the trademark on APRS. Or so this is how it has been explained in previous documents posted on the TAPR web site.

So, if you want to market a program called "Jim's ham AVL system" and added the logo "APRS-WG certified" you'll need to seek the approval of APRS-WG. The commitment for this procedure has already been put into place. But, if you want to call your program "Jim's EasyAPRS" then you'll need to seek approval from the trademark holder of APRS.

> More importantly, just what are the standards for approval for use of the  
> trademark "APRS" and who sets those standards?

Bob does. He owns this. Nothing to do with this list or the APRS-WG. If you want to license it, your best bet is to contract him directly.

> As I hope I have  
> pointed out, its not THAT hard to create something that appears fairly  
> compatible, and do it in such a way that it is attractive to users but not  
> call itself exactly "APRS".

Which has already been done. But your confusing a right of ownership, that is, the trademark to APRS, with compatibility to a over the air protocol. Two different and distinct issues.

Or am I completely confused here (not that I wasn't already)?

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org



From bounce-aprsspec-11589@lists.tapr.org Thu Jan 13 13:26:55 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA29695  
for <lyris.aprsspec@tapr.org>; Thu, 13 Jan 2000 13:26:54 -0600 (CST)  
From: "Paul Manning" <PMANNING@flint.umich.edu>  
Organization: The University of Michigan - Flint  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Date: Thu, 13 Jan 2000 14:26:33 EDT  
Subject: [aprsspec] FIPS Codes  
Priority: normal  
Message-ID: <LYR11589-60335-2000.01.13-13.42.56--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <28B8E73156@flint.umich.edu>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello to the group,

I would like to know if the "Spec" will include or support  
the use of the: Federal Information Processing System, "FIPS" codes.  
These codes are used by NOAA and EAS for addressing specific messages  
to counties and states.

These codes could help stations with filtering of APRS  
messages.

Paul  
N8VXD

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 14 00:46:03 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA27757  
for <lyris.aprsspec@tapr.org>; Fri, 14 Jan 2000 00:45:59 -0600 (CST)  
Message-Id: <LYR11589-60417-2000.01.14-01.01.57--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Thu, 13 Jan 2000 23:44:46 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Object Report Format description  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130308b4a4757372cd@[206.163.154.105]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello group -

There seems to be a small omission in the diagram titled "Object Report  
Format - with Lat/Long position" on page 45.

One of the possible occupants of the 7-character field following the Symbol  
Code is the "Tyy/Cxx" Area Descriptor. Thats not listed in the diagram as  
one of data types which can occupy the field.

Many thanks and best wishes to all....

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org   Fri Jan 14 08:31:15 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA17898  
for <lyris.aprsspec@tappr.org>; Fri, 14 Jan 2000 08:31:14 -0600 (CST)  
From: "Paul Manning" <PMANNING@flint.umich.edu>  
Organization: The University of Michigan - Flint  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Date: Fri, 14 Jan 2000 09:30:21 EDT  
Subject: [aprsspec] FIPS Codes 2  
Priority: normal  
Message-ID: <LYR11589-60452-2000.01.14-08.46.54--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <3BC9D8196B@flint.umich.edu>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

The FIPS code that I refereed to came from the FCC 1994

"Emergency Alert System", E.A.S., plan (FCC 47 CFR

Part 11.21, "State and Local Area Plans and FCC Mapbook").

State and Territories FIPS codes are listed in this section

of the rules, with Counties listed in a document called

"FCC Map Book".

The FCC used location codes from: "The U.S. Department of

Commerce National Institute of Standards and Technology

publication 772".

Paul  
N8VXD

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 14 08:43:11 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA18228  
for <lyris.aprsspec@tappr.org>; Fri, 14 Jan 2000 08:43:08 -0600 (CST)  
Mime-Version: 1.0  
X-Sender: ksproul@email.rci.rutgers.edu  
Message-Id: <LYR11589-60455-2000.01.14-08.58.59--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 14 Jan 2000 09:34:38 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Keith Sproul <ksproul@rci.rutgers.edu>  
Subject: [aprsspec] Re: FIPS Codes  
Cc: aprsspec@lists.tappr.org  
Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v04210113b4a4e43ba69d@[128.6.18.58]>  
<LYR11587-60335-2000.01.13-13.42.56--ksproul#rci.rutgers.edu@lists.tappr.or  
g>  
<LYR11587-60335-2000.01.13-13.42.56--ksproul#rci.rutgers.edu@lists.tappr.or  
g>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I have done a bunch of work with FIPS codes and could support them  
very easily, one of the reasons we did not do much with them is not  
easily readable by people because it is all numbers...

Keith

>Hello to the group,  
>  
>  
>I would like to know if the "Spec" will include or support  
>  
>the use of the: Federal Information Processing System,"FIPS" codes.  
>  
>These codes are used by NOAA and EAS for addressing specific messages  
>  
>to counties and states.  
>  
>  
>These codes could help stations with filtering of APRS

>  
>messages.  
>  
>  
>Paul  
>N8VXD  
>  
>---  
>You are currently subscribed to aprsspec as: ksproul@rci.rutgers.edu  
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

Keith Sproul ksproul@rci.rutgers.edu WU2Z  
Student Housing Network Coordinator 732 445-3695 W  
Rutgers University Computing Services 732 821-4828 H

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 14 12:26:57 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27259  
for <lyris.aprsspec@tappr.org>; Fri, 14 Jan 2000 12:26:54 -0600 (CST)  
From: Paul Keinanen <keinanen@sci.fi>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: FIPS Codes  
Date: Fri, 14 Jan 2000 20:28:16 +0200  
Message-ID: <LYR11589-60500-2000.01.14-12.42.56--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
References: <LYR13206-60455-2000.01.14-08.58.59--  
Paul.Keinanen#sci.fi@lists.tappr.org>  
In-Reply-To: <LYR13206-60455-2000.01.14-08.58.59--  
Paul.Keinanen#sci.fi@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <08qu7sc0fmqomoh5aflksiabmia7p8pa9l@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Fri, 14 Jan 2000 09:34:38 -0500, Keith Sproul  
<ksproul@rci.rutgers.edu> wrote:

>I have done a bunch of work with FIPS codes and could support them  
>very easily, one of the reasons we did not do much with them is not  
>easily readable by people because it is all numbers...

If I understand correctly, these are very US specific codes. Are they  
used anywhere else ?

These are of course OK as an optional feature, but I guess that the  
rest of the world would protest if these features would be \_required\_  
for some kind of APRS certification.

Paul OH3LWR

>>Hello to the group,  
>>  
>>  
>>I would like to know if the "Spec" will include or support  
>>  
>>the use of the: Federal Information Processing System,"FIPS" codes.  
>>  
>>These codes are used by NOAA and EAS for addressing specific messages  
>>  
>>to counties and states.  
>>  
>>  
>>These codes could help stations with filtering of APRS  
>>  
>>messages.  
>>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 14 16:16:24 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA05402  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 14 Jan 2000 16:16:23 -0600 (CST)  
Date: Fri, 14 Jan 2000 16:15:47 -0600 (CST)  
From: Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)>  
Message-Id: <LYR11589-60542-2000.01.14-16.32.12--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: APRS: Compulsion vs Permission??

In-Reply-To: <LYR11595-59675-2000.01.10-22.07.18--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200001142215.QAA04496@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Mon, 10 Jan 2000 20:51:02 -0700  
> From: Jim Wagner <wagnerj@proaxis.com>  
> Subject: [aprsspec] APRS: Compulsion vs Permission??  
>  
> The APRS standard is a good one. However, there are some areas where the  
> author has some strong differences of opinion. These areas do not involve  
> the protocol, as such. Instead, they involve issues of author and user  
> freedom. These points that I mention may seem nit-picky, or overly  
> confrontative. I intend them as neither. It is simply that when a "you  
> must..." is written into a standard, it becomes just that, compulsory.  
> Where the over-the air protocol is concerned, that is very important. When  
> it has to do with operator choice or author's choice of features, then it  
> should never be in the specs. Yes, to "it is recommended..." or "it is  
> desirable....", but not "you must...". Here are my issues:  
> [...]

Yes, the APRS protocol document is, in some sense, a specification of the  
APRS protocol plus all sorts of prescriptive language about how the  
user interface ought to work plus some implementation suggestions.

In the long term, I believe that attempts control the user interface  
(e.g., an APRS station must generate this sort of alert on reception  
of this sort of packet) will be difficult. I believe that a lot of  
users want control over these features (e.g., want to turn them off),  
and I believe some developers will address these desires.

Again, I think that the APRS protocol specification, user interface  
"requirements", and implementation suggestions ought to be clearly  
separated. Personally, I believe that this objective would be much  
easier to achieve if more than one document were created.

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 15 17:08:39 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03131  
for <lyris.aprsspec@tappr.org>; Sat, 15 Jan 2000 17:08:35 -0600 (CST)  
Date: Sat, 15 Jan 2000 17:08:12 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-60709-2000.01.15-17.24.39--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: The Genie Effect??  
In-Reply-To: <LYR11595-60199-2000.01.13-00.50.27--  
salo#networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <200001152308.RAA27160@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> Date: Wed, 12 Jan 2000 23:33:46 -0700  
> From: Jim Wagner <wagnerj@proaxis.com>  
> Subject: [aprsspec] The Genie Effect??  
>  
> My points concerning permission vs requirement of certain APRS operating  
> conditions seems to have stirred a bit of a hornet's nest. ...  
>  
> For example, the draft standard (page 59) requires: "Users must be alerted  
> on arrival of a new bulletin or announcement".  
>  
> How can this happen with a unit such as a transmit-only GPS position sender  
> such as a "tracker"? There is no way that the user of such a device can be  
> notified of anything, let alone an APRS bulletin or announcement. How can  
> tracker software use the trademark name "APRS" and be so non-compliant?

I believe that it would be useful for the APRS protocol spec to define several classes of APRS stations (e.g., GUI station, tracker, weather station, etc.) and identify the behavior that is expected of each of these classes of APRS stations (e.g., trackers probably don't need to ack messages, [or, then again, maybe they should to prevent the sender from needlessly retransmitting...]).

While it is another topic altogether, good conformance tests or certification tests are very difficult to develop, even for a mature, very precisely written protocol specification. Long ago I was associated with an X.25 certification test. After we pulled out the X.25 Recommendation



and argued a while about whether "may" meant the DTE could decide or the DCE could decide, the certification organization (the DoD, I think), more or less threw up their hands and admitted that we had pretty good X.25 software.

I also believe that things work better if the conformance or certification tests are derivative and the protocol specification primary.

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 15 18:14:01 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA05536  
for <lyris.aprsspec@tapr.org>; Sat, 15 Jan 2000 18:13:59 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 15 Jan 2000 19:12:17 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: The Genie Effect??  
In-Reply-To: <LYR11586-60709-2000.01.15-17.24.39--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-60719-2000.01.15-18.29.50--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001151909120.21646-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sat, 15 Jan 2000, Tim Salo wrote:

> I believe that it would be useful for the APRS protocol spec to define  
> several classes of APRS stations (e.g., GUI station, tracker, weather  
> station, etc.) and identify the behavior that is expected of each  
> of these classes of APRS stations

Yes, Tim, I think this is a good suggestion. It will help discriminate

the issues and keep us from arguing to the lowest common denominator...

Other classes might be TELEMETRY station, DIGIPEATER, HF GATE, and IGATE... any others?

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 14:48:33 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA25580  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 14:48:32 -0600 (CST)  
X-Sender: wagnerj@proaxis.com (Unverified)  
Message-Id: <LYR11589-60866-2000.01.16-15.04.41--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 16 Jan 2000 13:48:07 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Description of Object Format  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <103130300b4a7d82c58c3@[198.106.196.81]>  
<LYR11893-60747-2000.01.16-00.00.15--wagnerj@proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings -

As many of you know, I am in the middle of creating a new APRS program. This has lead me to look at these descriptions very carefully, because that is all I have to work with (plus, of course, the great comments here on the list).

In the section on Objects and Items, the very first paragraph includes the sentence:

Object reports are identical to posit reports, except that the Position

Report is preceded by a fixed 9-character Object name.

I don't think that is true. A position report can include wind direction and speed in the Extended Data field but I don't think that this is allowed for Object. Conversely, an Object can include an area descriptor in the Extended Data, but I don't think that a position report can. Or, am I wrong?

In the description of the Item Format, it says:

Items are the same as APRS Objects, except that the Data Type Identifier is a ), there is no time stamp, and the Item name is variable length from 3 to 9 bytes followed by the standard ! format position.

But, is it really the same as an Object? There is no mention of including an area descriptor for Items, though it would seem to make sense to do so.

Related to this, here are some questions about Objects and Items:

- (1) Why no "Killed Item"?
- (2) To Kill an object, what degree of match is required? Name only? Name and position? Name and position and extended data? Name and position and extended data and comment?
- (3) What degree of match is required for an Object/Item replacement to occur? Name only? Name and position?
- (4) Is altitude coding allowed in comment text for Object/Item?

The latter question leads to the following suggestion:

I would like to see a short chapter on the data that can be embedded in the comment field. Examples include altitude and beam heading and position. There are probably others, but they tend to be scattered and buried, making them difficult to pick out unless you are a very careful reader. If you are simply trying to answer the question: "What do I need to specially decode from the comment field?", it's hard to find.

Thanks to everyone, and specially the Technical Editor, Ian Wade, G3NRW, who have made this all possible.

Jim Wagner  
Oregon Research Electronics

wagnerj@proaxis.com  
KA7EHK@KC7KFE.OR.USA.NOAM  
ka7ehk@yahoo.com

Tangent, Oregon 97389  
near Corvallis OR, home of  
Oregon State University

-----  
A computer without Windows is like a cake without mustard. - anonymous

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 17:07:52 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA00907  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 17:07:52 -0600 (CST)  
Message-Id: <LYR11589-60881-2000.01.16-17.24.03--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 16 Jan 2000 16:07:26 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Area Icon??  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <103130303b4a7fed87328@[198.106.196.235]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings everyone -

Very brief question, I hope: Since the Object icon is used to denote an "area", how is the icon for an area to be designated? By the SSID, perhaps? If so, that does not leave much choice!

For example, I can see that it would be very desirable to use an area descriptor for a hurricane. Yet, there are no weather-related SSID-specific icons.

Many thanks -

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com Tangent, Oregon 97389

KA7EHK@KC7KFE.OR.USA.NOAM      near Corvallis OR, home of  
ka7ehk@yahoo.com              Oregon State University

---

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 17:11:23 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA01018  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 17:11:21 -0600 (CST)  
Message-Id: <LYR11589-60883-2000.01.16-17.27.36--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 16 Jan 2000 16:11:09 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Area Icon?? more  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130304b4a7ffcead3d@[198.106.196.235]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In the note just sent, I inquired about specifying the icon for an area object. I asked whether or not one needed to fall back on the SSID.

But, now I read at the bottom of page 15 that if there is a symbol code present, the SSID must be ignored as far as icon representation is concerned. If that is so, then not even SSID is available to tell us what icon to use for an area. Or, am I missing something (again)?

Many thanks, again,

Jim Wagner  
Oregon Research Electronics

---

wagnerj@proaxis.com              Tangent, Oregon 97389

KA7EHK@KC7KFE.OR.USA.NOAM      near Corvallis OR, home of  
ka7ehk@yahoo.com              Oregon State University

---

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 17:37:35 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA02208  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 17:37:34 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sun, 16 Jan 2000 18:36:25 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Description of Object Format  
In-Reply-To: <LYR11586-60866-2000.01.16-15.04.41--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-60886-2000.01.16-17.53.36--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001161820570.23734-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sun, 16 Jan 2000, Jim Wagner wrote:

> Object reports are identical to posit reports, except that the Position  
> Report is preceded by a fixed 9-character Object name.  
>  
> I don't think that is true. A position report can include wind direction  
> and speed in the Extended Data field but I don't think that this is allowed  
> for Object. Conversely, an Object can include an area descriptor in the  
> Extended Data, but I don't think that a position report can. Or, am I wrong?

Think of an OBJECT as 100% identical to a position report. You just take off the 9 character call, and then continue parsing it as if it were a posit. This is intentional. It allows an OBJECT to be anything a station can be. Thus you can place WX objects, Moving objects, DF objects, ANY station on the map that cannot report his own position for some reason.

> In the description of the Item Format, it says: >  
> Items are the same as APRS Objects, except that the Data Type Identifier is a  
> ), there is no time stamp, and the Item name is variable length from 3 to 9  
> bytes followed by the standard ! format position.  
>  
> But, is it really the same as an Object? There is no mention of including  
> an area descriptor for Items, though it would seem to make sense to do so.

Yes. Again, wanting to keep everything as general as possible, an ITEM is also 100% identical to a POSITION or OBJECT. The only difference is that it has a variable length name and no time. Once you get to the LATITUDE, from there on it is 100% identical to an object or a position...

> (1) Why no "Killed Item"?

You can. The KILLED object format will KILL any matching HAMED Object, station or ITEM. Doesn't matter... That's why we ask that the software only permit the "originator of an OBJECT" to be able to send out the KILLED OBJECT for that "named" object/item/posit...

> (2) To Kill an object, what degree of match is required? Name only? Name  
> and position? Name and position and extended data? Name and position and  
> extended data and comment?

A KILLED OBJECT is only a "replacement" object that is marked as "killed". It typically has the same object data but with the killed TYPE character. Thus it stays on everyone's list (for future reference). But it only ceases to be displayed. The assumption being that NO ONE can ever completely cause other's data to vanish. It is simply marked for "no-display" so the other stations still have a copy in case it later becomes important.

Or, think of it as simply a "replacement" In this case, only the CALL has to match.

> (3) What degree of match is required for an Object/Item replacement to  
> occur? Name only? Name and position?

NAME only. and CASE does matter...

> (4) Is altitude coding allowed in comment text for Object/Item?

SURE. After the first digit of LATITUDE, all of these are identical...

> I would like to see a short chapter on the data that can be embedded in the  
> comment field. Examples include altitude and beam heading and position.  
> There are probably others, but they tend to be scattered and buried, making  
> them difficult to pick out unless you are a very careful reader. If you are  
> simply trying to answer the question: "What do I need to specially decode  
> from the comment field?", its hard to find.

Hope this helps...

de WB4APR, Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 18:39:44 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA03931  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 18:39:43 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sun, 16 Jan 2000 19:38:57 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Area Icon??  
In-Reply-To: <LYR11586-60881-2000.01.16-17.24.03--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-60892-2000.01.16-18.55.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001161936540.25182-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sun, 16 Jan 2000, Jim Wagner wrote:



> Very brief question, I hope: Since the Object icon is used to denote an  
> "area", how is the icon for an area to be designated? By the SSID, perhaps?  
> If so, that does not leave much choice!

An area is an area. It just draws the shape. There is no ICON associated with it. Have you ever run APRSdos? 90% of your questions would be immediately obvious if you just tried them in APRSdos...

If you want to draw an area around a hurricane, you just do the normal HURRICAN input and then add anotehr object for the "area" you chose...  
bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 16 19:36:02 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA06054  
for <lyris.aprsspec@tapr.org>; Sun, 16 Jan 2000 19:36:00 -0600 (CST)  
Message-Id: <LYR11589-60900-2000.01.16-19.51.58--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
X-Sender: cap@mail.cruzio.com  
Date: Sun, 16 Jan 2000 17:35:13 -0800  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Cap Pennell <cap@cruzio.com>  
Subject: [aprsspec] Re: Area Icon??  
In-Reply-To: <LYR11639-60892-2000.01.16-18.55.58--ke6afe#arrl.net@lists.  
tapr.org>  
References: <LYR11586-60881-2000.01.16-17.24.03--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <3.0.5.32.20000116173513.007ce720@mail.cruzio.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

At 07:38 PM 1/16/2000 -0500, Bob Bruninga wrote:

<snip>

>An area is an area. It just draws the shape. There is no ICON associated

>with it. Have you ever run APRSdos? 90% of your questions would be  
>immediately obvious if you just tried them in APRSdos...  
<snip>

Yes. I've used APRSdos, WinAPRS and APRS+SA. Each has different strengths and weaknesses. I believe at this point it would only be common sense to be thoroughly versed in all these (as well as the proposed protocol) before attempting to create another application, even if using a different operating system. After all, trying them is free.

I'd hope for something that combines all their strengths and avoids their weaknesses.

73, Cap KE6AFE

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]

email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>

packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 18 23:25:04 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA15800

for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 18 Jan 2000 23:25:03 -0600 (CST)

Message-ID: <LYR11589-61345-2000.01.18-17.48.54--

[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>

Date: Tue, 18 Jan 2000 15:32:24 -0800 (PST)

From: James Wagner <[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)>

Subject: [aprsspec] Weather with position?

To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <20000118233224.6055.qmail@web905.mail.yahoo.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Hello Group -

On page 49 of the draft, the following appears:

In addition, where the raw data has been post-processed for example, by the insertion of station location information), the four position Data Type identifiers !, =, / and @ may be used instead. In this case, the Weather Report is identified with the weather symbol /\_ in the APRS Data.

A little later, where "Weather Reports with Time and Position" are discussed on page 51, it says:

Examples of report formats are shown below. Note that the Symbol Code in very case is the \_ (underscore).

The format description leaves the Symbol Table ID character undefined. And, in fact, the Symbol Table on page 84 shows that

/\_ = Weather Station  
\\_ = Weather Site

The question IS:

Should the reference to "weather symbol" on page 49 include both the "/\_" and "\\_" symbols? Or, should the format description on page 51 be restricted to a Symbol Table ID of "/", only?

Many thanks,  
Jim, KA7EHK

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org) Wed Jan 19 09:29:54 2000  
Received: from [lists.tapr.org](mailto:lists.tapr.org) ([lists.tapr.org](mailto:lists.tapr.org) [204.17.217.24])  
by [tapr.org](mailto:tapr.org) (8.9.3/8.9.3/1.13) with SMTP id JAA17446  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 19 Jan 2000 09:29:51 -0600 (CST)  
X-Authentication-Warning: [arctic.usna.edu](mailto:arctic.usna.edu): [bruninga](mailto:bruninga) owned process doing -bs  
Date: Wed, 19 Jan 2000 10:27:32 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: [bruninga@arctic](mailto:bruninga@arctic)

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: Weather with position?  
In-Reply-To: <LYR11586-61345-2000.01.18-17.48.54--  
bruninga#nadm.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-61458-2000.01.19-09.46.08--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.10001191021220.25447-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Good question. The combination of "complete" and "positionless" weather in the APRS standard is a bit of a mess, since the resulting "weatherless" position packets necessary to fill in the positions for the "positionless" weather also contains the WX ICON. Thus on receipt of a position packet with the WX icon, your software has to check the WX fields to determine if this is in fact a "complete" WX report or a "weatherless" position packet by context parsing.

This could be solved by using a different ICON for "complete" WX reports and for "weatherless" position reports, but that will have to be an issue for a later rev of the spec...

Good luck, Bob

On Tue, 18 Jan 2000,  
James Wagner wrote:

> Hello Group -  
>  
> On page 49 of the draft, the following appears:  
>  
> In addition, where the raw data has been post-processed  
> for example, by the insertion of station location information),  
> the four position Data Type identifiers !, =, / and @ may be  
> used instead. In this case, the Weather Report is identified  
> with the weather symbol /\_ in the APRS Data.  
>  
> A little later, where "Weather Reports with Time and Position"  
> are discussed on page 51, it says:  
>

> Examples of report formats are shown below. Note that the  
> Symbol Code in very case is the \_ (underscore).  
>  
> The format description leaves the Symbol Table ID character  
> undefined. And, in fact, the Symbol Table on page 84 shows  
> that  
>  
> /\_ = Weather Station  
> \\_ = Weather Site  
>  
> The question IS:  
>  
> Should the reference to "weather symbol" on page 49 include  
> both the "/\_" and "\"\_\" symbols? Or, should the format  
> description on page 51 be restricted to a Symbol Table ID  
> of "/", only?  
>  
> Many thanks,  
> Jim, KA7EHK  
>  
>  
> -----  
> Do You Yahoo!?  
> Talk to your friends online with Yahoo! Messenger.  
> <http://im.yahoo.com>  
>  
> ---  
> You are currently subscribed to aprsspec as: [bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)  
> To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: [wb4apr@amsat.org](mailto:wb4apr@amsat.org)  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tappr.org/tappr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tappr.org](mailto:lyris.aprsspec@tappr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tappr.org](mailto:leave-aprsspec-11589P@lists.tappr.org)

From bounce-aprsspec-11589@lists.tappr.org Wed Jan 19 14:40:11 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29808  
for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 14:40:10 -0600 (CST)  
Message-ID: <LYR11589-61512-2000.01.19-14.56.31--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 19 Jan 2000 12:35:09 -0800 (PST)  
From: James Wagner <ka7ehk@yahoo.com>  
Subject: [aprsspec] Comment field contents  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <20000119203509.26374.qmail@web903.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On page 19, in a brief discussion of the contents of  
the comment field, the draft says:

As special cases, the Comment field can also contain:  
i The bearing and number/range/quality parameters in a DF report.  
i Storm data.

It does not say (anywhere in this section) that the comment  
field can also contain altitude coding (page 23):

Altitude in Comment Text ó The comment may contain an altitude  
value, in the form /A=aaaaaaa, where aaaaaaa is the altitude in  
feet. For example: /A=001234. The altitude may appear anywhere  
in the comment.

This seems to me to warrant inclusion not only where it is but  
ALSO in descriptions of the Comment Field. My reasoning is  
this: suppose someone (sort of like me) comes along and asks  
"What special things do I need to watch for in the Comment  
Field?" Unless that same person just happens to catch it  
elsewhere in the docs, it will be missed.

Many thanks,  
Jim, KA7EHK

---

Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 19 15:26:39 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02000  
for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 15:26:36 -0600 (CST)  
Message-ID: <LYR11589-61519-2000.01.19-15.42.52--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Wed, 19 Jan 2000 13:26:10 -0800 (PST)  
From: James Wagner <ka7ehk@yahoo.com>  
Subject: [aprsspec] Omni DF Params?  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000119212610.8379.qmail@web901.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello Group -

The discussion on draft page 26 of Omni-DF Signal Strength  
extension does not say how the characters other than the  
first are derived. Are they the same as the PHG set???

Many thanks  
Jim, KA7EHK

---

Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 19 15:44:52 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02623

for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 15:44:51 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 19 Jan 2000 16:44:26 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Omni DF Params?  
In-Reply-To: <LYR11586-61519-2000.01.19-15.42.52--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-61523-2000.01.19-16.01.09--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001191644200.26334-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 19 Jan 2000, James Wagner wrote:

> Hello Group -  
>  
> The discussion on draft page 26 of Omni-DF Signal Strength  
> extension does not say how the characters other than the  
> first are derived. Are they the same as the PHG set???

Yes

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 19 20:19:39 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA13183  
for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 20:19:35 -0600 (CST)  
Date: Wed, 19 Jan 2000 20:19:22 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-61559-2000.01.19-20.16.01--  
lyris.aprsspec#tapr.org@lists.tapr.org>



To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprssig] \$PGRMZ  
Cc: aprsspec@lists.tappr.org  
In-Reply-To: <LYR8348-61247-2000.01.18-09.16.35--  
salo#networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyrus Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <200001200219.UAA54039@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> Date: Tue, 18 Jan 2000 07:59:23 -0700  
> From: Earl Needham <KD5XB@AMSAT.ORG>  
> Subject: [aprssig] \$PGRMZ  
>  
> Keith was kind enough to include support for \$PGRMZ in the latest version  
> of WinAPRS. ...

Sorry to shoot the messenger, Earl, but...

Is this consistent with the APRS Protocol Reference?

The spec says:

"It is recommended that APRS interprets at least the following  
NMEA Received Sentence types:

GGA ...  
GLL ...  
RMC ...  
VTG ...  
WTP ..."

(First, I assume that the sentence should read something like: "APRS  
stations SHOULD interpret the following..."; I believe that the term  
"APRS" is too vague to be used in an unambiguous spec.)

The spec indicates that no conformant APRS station needs to interpret the  
\$PGRMZ sentence. Sending a packet that implementations aren't expected  
to interpret doesn't seem wise.

I believe the spec may be silent on whether an APRS implementation may  
transmit in formats that are not described in the spec, (beyond the "{"  
user-defined format and perhaps the "" test format).

The spec does say that

"Altitude may be expressed in two ways:

- o In the comment text.
- o In the Mic-E format."

Personally, I believe that an important objective of a protocol spec is to promote the development of interoperable implementations. I also believe that an important test of the quality of a protocol spec is whether it is precise enough to ensure that conformant implementations interoperate.

It appears to me that a spec that permits an implementation to transmit whatever formats it chooses is unlikely to be effective in fostering interoperability.

Is the \$PGRMZ listed in spec, but I missed it?

Does the spec need to be more precise in what formats an APRS station may transmit?

Does this new feature conflict with the spirit or the letter of the spec, at least to the extent that, as a non-standard (proprietary) extension, it makes interoperability difficult?

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 19 20:36:54 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA13893  
for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 20:36:53 -0600 (CST)  
Message-ID: <LYR11589-61562-2000.01.19-20.33.16--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] \$PGRMZ  
Date: Wed, 19 Jan 2000 18:36:33 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <000a01bf62ef\$2d595c00\$9b94b3d1@laptop233>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Tim, maybe I'm wrong, but I do not think you understand. WinAPRS is not transmitting \$PGRMZ, it is Interpreting \$PGRMZ and then including Altitude in the on-air transmitted data in APRS format. This is Good Tim. It then provide 3D position, Track and Speed. It is a melding of RMC and RMZ. It does not harm intra-operability at all. I hope you can recall your bullets. Keith will correct me if I'm wrong, then you can shoot me. Brent KH2Z

-----Original Message-----

From: Tim Salo <sal@networkcs.com>  
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Cc: aprsspec@lists.tapr.org <aprsspec@lists.tapr.org>  
Date: Wednesday, January 19, 2000 6:19 PM  
Subject: [aprsspec] Re: [aprssig] \$PGRMZ

>> Date: Tue, 18 Jan 2000 07:59:23 -0700  
>> From: Earl Needham <KD5XB@AMSAT.ORG>  
>> Subject: [aprssig] \$PGRMZ  
>>  
>> Keith was kind enough to include support for \$PGRMZ in the latest version  
>> of WinAPRS. ...  
>  
>Sorry to shoot the messenger, Earl, but...  
>  
>Is this consistent with the APRS Protocol Reference?  
>  
>The spec says:  
>  
> "It is recommended that APRS interprets at least the following  
> NMEA Received Sentence types:  
>  
> GGA ...  
> GLL ...  
> RMC ...

> VTG ...  
> WTP ..."  
>  
>(First, I assume that the sentence should read something like: "APRS  
>stations SHOULD interpret the following..."; I believe that the term  
>"APRS" is too vague to be used in an unambiguous spec.)  
>  
>The spec indicates that no conformant APRS station needs to interpret the  
>\$PGRMZ sentence. Sending a packet that implementations aren't expected  
>to interpret doesn't seem wise.  
>  
>I believe the spec may be silent on whether an APRS implementation may  
>transmit in formats that are not described in the spec, (beyond the "{"  
>user-defined format and perhaps the "" test format).  
>  
>The spec does say that  
>  
> "Altitude may be expressed in two ways:  
>  
> o In the comment text.  
> o In the Mic-E format."  
>  
>  
>Personally, I believe that an important objective of a protocol spec is  
>to promote the development of interoperable implementations. I also  
>believe that an important test of the quality of a protocol spec is  
>whether it is precise enough to ensure that conformant implementations  
>interoperate.  
>  
>It appears to me that a spec that permits an implementation to transmit  
>whatever formats it chooses is unlikely to be effective in fostering  
>interoperability.  
>  
>Is the \$PGRMZ listed in spec, but I missed it?  
>  
>Does the spec need to be more precise in what formats an APRS station  
>may transmit?  
>  
>Does this new feature conflict with the spirit or the letter of the spec,  
>at least to the extent that, as a non-standard (proprietary) extension,  
>it makes interoperability difficult?  
>  
>-tjs  
>  
>---  
>You are currently subscribed to aprsspec as: bhildebrand@earthlink.net  
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org  
>

>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 19 21:08:44 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA14958  
for <lyris.aprsspec@tapr.org>; Wed, 19 Jan 2000 21:08:39 -0600 (CST)  
Date: Wed, 19 Jan 2000 21:08:07 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-61565-2000.01.19-21.05.03--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Re: \$PGRMZ  
Cc: aprsspec@lists.tapr.org  
In-Reply-To: <LYR8348-61563-2000.01.19-20.50.11--  
salo@networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200001200308.VAA54511@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Wed, 19 Jan 2000 21:52:16 -0500  
> To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>  
> From: Keith Sproul <ksproul@vger.rutgers.edu>  
> Subject: [aprssig] [aprsspec] Re: \$PGRMZ  
>  
> Brent is correct..  
> [...]  
>  
> Brent wrote:  
>  
> >Tim, maybe I'm wrong, but I do not think you understand. WinAPRS is not  
> >transmitting \$PGRMZ, it is Interpreting \$PGRMZ and then including Altitude  
> >in the on-air transmitted data in APRS format. ...

Neat.

I stand corrected.

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 12:40:54 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27655  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 20 Jan 2000 12:40:53 -0600 (CST)  
Message-ID: <LYR11589-61673-2000.01.20-12.37.18--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Thu, 20 Jan 2000 10:40:42 -0800 (PST)  
From: James Wagner <[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)>  
Subject: [aprsspec] Wind speed and direction in Position with WX  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000120184042.23660.qmail@web905.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Greetings -

On page 24 of the draft, we have the following:

#### Wind Direction and Wind Speed

The 7-byte DIR/SPD Data Extension can be used to represent the wind direction and sustained one-minute wind speed in a Weather Report. The wind direction is expressed in degrees (001-360), clockwise from due north. The speed is expressed in knots. A slash / character separates the two.  
For example:

220/004 represents a wind direction of 220 degrees and a speed of 4 knots.

If the direction and speed are unknown or not relevant, they are set to 000/000.

Now, for the question:

Is the Direction/Speed extension ALWAYS present if the symbol is  
/\_ or \\_ ????. If not, how does one distinguish between Direction/speed  
and (other) weather data. Is the presence of the "/" in character  
four of the extension field sufficient (when the symbol is /\_ or \\_)  
????

Many thanks,  
Jim, KA7EHK

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 12:50:58 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA28007  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 20 Jan 2000 12:50:54 -0600 (CST)  
Message-ID: <LYR11589-61675-2000.01.20-12.47.22--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Date: Thu, 20 Jan 2000 10:50:46 -0800 (PST)  
From: James Wagner <[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)>  
Subject: [aprsspec] Bearing and Number/Range/Quality  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000120185046.24993.qmail@web905.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello, again (and again, and again...)

The draft (page 27) seems to suggest that Bearing and  
Number/Range/Quality is present ONLY after course/speed data.

Is this a correct interpretation?

Thanks,

Jim, KA7EHK

-----  
Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 13:46:35 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA29952

for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 20 Jan 2000 13:46:34 -0600 (CST)

From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>

To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>

Subject: [aprsspec] Re: Wind speed and direction in Position with WX

Date: Thu, 20 Jan 2000 21:48:09 +0200

Message-ID: <LYR11589-61697-2000.01.20-13.43.03--

[lyris.aprsspec@lists.tapr.org](mailto:lyris.aprsspec@lists.tapr.org)>

References: <LYR13206-61673-2000.01.20-12.37.18--

[Paul.Keinanen@sci.fi](mailto:Paul.Keinanen@sci.fi)>

In-Reply-To: <LYR13206-61673-2000.01.20-12.37.18--

[Paul.Keinanen@sci.fi](mailto:Paul.Keinanen@sci.fi)>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <90oe8sgv0123sc37eeembutue72703vq4t@4ax.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Thu, 20 Jan 2000 10:40:42 -0800 (PST), James Wagner

<[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)> wrote:

>Greetings -

>

>On page 24 of the draft, we have the following:

>



>Wind Direction and Wind Speed

>

>The 7-byte DIR/SPD Data Extension can be used to represent the wind  
>direction and sustained one-minute wind speed in a Weather Report.

Is this some US specific convention of expressing the wind speed as a  
\_one\_ minute sustained speed ? As far as I know, some other weather  
services uses \_ten\_ minute averages.

If APRS is going to be an international standard, IMHO, then either  
the reference to one minute sustained wind should be removed or  
something should be said about different services using different  
methods of determining the wind.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 14:27:49 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA01850  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 20 Jan 2000 14:27:49 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 20 Jan 2000 15:27:16 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Wind speed and direction in Position with WX  
In-Reply-To: <[LYR11586-61673-2000.01.20-12.37.18--bruninga@nadn.navy.mil@lists.tapr.org](mailto:LYR11586-61673-2000.01.20-12.37.18--bruninga@nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-61702-2000.01.20-14.24.12--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-61702-2000.01.20-14.24.12--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <Pine.GS0.4.05L.10001201524120.28918-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 20 Jan 2000, James Wagner wrote:

> Wind Direction and Wind Speed  
> If the direction and speed are unknown or not relevant, they are set to  
> 000/000.  
>  
> Now, for the question:  
>  
> Is the Direction/Speed extension ALWAYS present if the symbol is  
> /\_ or \\_ ????. If not, how does one distinguish between Direction/speed  
> and (other) weather data. Is the presence of the "/" in character  
> four of the extension field sufficient (when the symbol is /\_ or \\_)  
> ????

Thats the problem I referred to in supporting both the weatherless  
position data and the positionless WX data. In APRSdos, I use the  
presence of the "g" and "t" fields as the "test" to determine if it is  
truely WX or if it is just a pposition report of a WX station without any  
WX data associated with it. SO, yes, the CSE/SPD/gust and TEMP fields are  
REQUIRED. If any are missing, then it is probably a WinAPRS weatherless  
position report of a WX station...

de WB4APR, bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 14:28:24 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA01879  
for <lyris.aprsspec@tapr.org>; Thu, 20 Jan 2000 14:28:21 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Thu, 20 Jan 2000 15:27:37 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Bearing and Number/Range/Quality  
In-Reply-To: <LYR11586-61675-2000.01.20-12.47.22--  
bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-61703-2000.01.20-14.24.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001201527290.28918-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Thu, 20 Jan 2000, James Wagner wrote:

> Hello, again (and again, and again...)  
>  
> The draft (page 27) seems to suggest that Bearing and  
> Number/Range/Quality is present ONLY after course/speed data.  
>  
> Is this a correct interpretation?

Yes,

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 20 15:26:23 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA04034  
for <lyris.aprsspec@tapr.org>; Thu, 20 Jan 2000 15:26:20 -0600 (CST)  
Message-ID: <LYR11589-61747-2000.01.20-15.22.43--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
From: Richard Carter <rcarter@isi.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Wind speed and direction in Position with WX  
Date: Thu, 20 Jan 2000 16:23:23 -0500  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <01BF6362.AD05DA50@lambchop.isi.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA04034

Does anyone out there have an electronic copy of the NMEA-183 spec? I have portions of it in printed form, but I'd like to see the whole thing. I'm reluctant to fork over \$75 to NMEA just to peek at their spec. The notes I have indicate that wind speed is reported as an instantaneous velocity, relative to true north, in knots (MWV). I don't know if this is directly related to some recent postings I've read, but it seems that it would be difficult to extend the APRS spec beyond what NMEA defines.

Rich Carter - KE1EV

-----Original Message-----

From: Paul Keinanen [SMTP:keinanen@sci.fi]

Sent: Thursday, January 20, 2000 2:48 PM

To: APRS Spec Discussion List

Subject: [aprsspec] Re: Wind speed and direction in Position with WX

On Thu, 20 Jan 2000 10:40:42 -0800 (PST), James Wagner  
<ka7ehk@yahoo.com> wrote:

>Greetings -

>

>On page 24 of the draft, we have the following:

>

>Wind Direction and Wind Speed

>

>The 7-byte DIR/SPD Data Extension can be used to represent the wind  
>direction and sustained one-minute wind speed in a Weather Report.

Is this some US specific convention of expressing the wind speed as a  
\_one\_ minute sustained speed ? As far as I know, some other weather  
services uses \_ten\_ minute averages.

If APRS is going to be an international standard, IMHO, then either  
the reference to one minute sustained wind should be removed or  
something should be said about different services using different  
methods of determining the wind.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: rcarter@isi.com

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 21 10:43:59 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25605  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 21 Jan 2000 10:43:57 -0600 (CST)  
Message-ID: <LYR11589-61884-2000.01.21-10.40.23--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Fri, 21 Jan 2000 08:41:32 -0800 (PST)  
From: James Wagner <[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)>  
Subject: [aprsspec] Weather Icon  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000121164132.9435.qmail@web902.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello Group -

Very recently, I asked whether the symbol characters  
"/\_" and "\\_" were BOTH recognized as indicating a  
Position Report with weather.

Bob responded with some very important information, but  
didn't answer the question. So, I will pose the question  
again.

Does the presence of ANY symbol with a Symbol Code character  
of "\_" in a Position Report make it a "Weather Report"? Or,  
is this true only for symbol "/"\_ (Weather Station)?

Many thanks,  
Jim, KA7EHK

-----

Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 21 14:56:26 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA03979  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 21 Jan 2000 14:56:25 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Fri, 21 Jan 2000 15:55:54 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: Weather Icon  
In-Reply-To: <[LYR11586-61884-2000.01.21-10.40.23--bruninga#nadn.navy.mil@lists.tapr.org](mailto:LYR11586-61884-2000.01.21-10.40.23--bruninga#nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-61909-2000.01.21-14.52.51--lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-61909-2000.01.21-14.52.51--lyris.aprsspec#tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GS0.4.05L.10001211552500.424-1000000@arctic](mailto:Pine.GS0.4.05L.10001211552500.424-1000000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Fri, 21 Jan 2000, James Wagner wrote:

> Does the presence of ANY symbol with a Symbol Code character  
> of "\_" in a Position Report make it a "Weather Report"? Or,  
> is this true only for symbol "/\_" (Weather Station)?

All of the following may contain WX in a complete report  
/\_ , \\_ weather station  
/W , \W NWS weather station

In both casses of the alternate "\" symbols, these symbols may have an overlay character such as R for a RADAR site, "N" for a site that can also do WIDEn-n digipeating or "T" for sites that are TRACE only. etc...

In other words, the alternate symbols are just normal overlay type symbols, but are still treated the same...

bob

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 22 18:20:46 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA07727  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 22 Jan 2000 18:20:42 -0600 (CST)  
Errors-To: <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Message-ID: <LYR11589-62078-2000.01.22-18.17.07--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Sat, 22 Jan 2000 19:21:10 -0500  
From: Jeff King <[jeff@aerodata.net](mailto:jeff@aerodata.net)>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] What is aprsdev? was: Re: [aprsdev] I Give - how is this happening  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <388A4976.ECEFED73@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Can someone tell me what the APRSDEV list is? I see no mention of it at all on the TAPR list server. How does one gain entry to it?

Thanks

Jeff

Bob Bruninga wrote:

>On Fri, 21 Jan 2000, Brent Hildebrand wrote:

>

> > You are currently subscribed to aprsdev as: bruninga@nadm.navy.mil

> > To unsubscribe send a blank email to leave-aprsdev-8585R@lists.tappr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 22 21:24:28 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA13097

for <lyris.aprsspec@tappr.org>; Sat, 22 Jan 2000 21:24:23 -0600 (CST)

Errors-To: <jeff@aerodata.net>

Message-ID: <LYR11589-62113-2000.01.22-21.20.53--

lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Sat, 22 Jan 2000 22:25:07 -0500

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: [arpp] GPL'ed PSK31 source, the next HF "APRS"?

References: <388A4DB7.8CA7AF14@aerodata.net> <20000123121048.E1474@rising.com.au>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <388A7491.4BFED0FD@aerodata.net>

Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

Hi Hamish:

Hamish Moffatt wrote:

> My understanding is that BPSK mode in PSK31 has some FEC,

> but QPSK mode has more (since it has theoretically twice the bitrate).

I went back and checked, and I'm fairly sure there is no FEC in the BPSK mode and 2:1 FEC in the QPSK mode. So the actual user speeds are the same, with the 2X speed improvement of QPSK being taken up with



FEC overhead.

Now, I took a look at the varicode tables, and came up with this for a good set of short chars for representing digits (which will comprise the bulk of transmissions i.e. being lat/lon).

The proper PSK31 representation of digits actually is quite long... 8 to 9 bits.

| Char  | Length | Could be? |
|-------|--------|-----------|
| SPACE | 1      | 0         |
| e     | 11     | 1         |
| o     | 111    | 2         |
| t     | 101    | 3         |
| i     | 1101   | 4         |
| a     | 1011   | 5         |
| n     | 1111   | 6         |
| l     | 11011  | 7         |
| r     | 10101  | 8         |
| s     | 10111  | 9         |

So for example, your "APRS" broadcast station would send the station's callsign (in standard varicode), then a delimiter, then the lat/lon in a compressed code (in this case the shortest varicode letters).

Or another way would be to go with "two digit" representations. Represent 0-99 as an ASCII char from 0-99.... I think the average is around 8-9 bits, so you be at least be getting close to matching BCD. So let's say for example you want to represent lat 42.3397. This could be represented as "+!a" in varicode (you drop the decimal place and stay with fixed length). Or even better, offset the varicode by 32 to take advantage of the shorter length of the lowercase letters.

The other advantage of base 100 (as above) is that you drop the waste of two "00"'s between each varicode char.

Or dump varicode altogether, but that might limit initial interest.

Just some thoughts.

-Jeff

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Sun Jan 23 10:02:47 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA20747  
for <lyris.aprsspec@tappr.org>; Sun, 23 Jan 2000 10:02:45 -0600 (CST)  
Message-ID: <LYR11589-62196-2000.01.23-09.59.22--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
From: "Dale Huguley" <kg5qd@worldnet.att.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] SVR to I-Gate Operators Note:  
Date: Sun, 23 Jan 2000 15:58:32 -0000  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <001101bf65ba\$b379f560\$ab984d0c@dale-s-home>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Hi All-

I am in the process of changing the Data stream coming from the WXSVR  
parser and need you to add some more call signs to your "Stations.txt" file.  
An explanation is located at  
[http://kg5qd.home.att.net/I\\_gate.html](http://kg5qd.home.att.net/I_gate.html)  
This system is more versatile and can be taylorred to your local area.

73 de kg5qd Dale

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Jan 23 15:21:39 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02475  
for <lyris.aprsspec@tappr.org>; Sun, 23 Jan 2000 15:21:37 -0600 (CST)  
Date: Sun, 23 Jan 2000 15:21:25 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>

Message-Id: <LYR11589-62243-2000.01.23-15.18.15--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: The Genie Effect??  
In-Reply-To: <LYR11595-60719-2000.01.15-18.29.50--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200001232121.PAA54121@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Sat, 15 Jan 2000 19:12:17 -0500 (EST)  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> Subject: [aprsspec] Re: The Genie Effect??  
>  
> On Sat, 15 Jan 2000, Tim Salo wrote:  
> > I believe that it would be useful for the APRS protocol spec to define  
> > several classes of APRS stations (e.g., GUI station, tracker, weather  
> > station, etc.) and identify the behavior that is expected of each  
> > of these classes of APRS stations  
>  
> Yes, Tim, I think this is a good suggestion. It will help discriminate  
> the issues and keep us from arguing to the lowest common denominator...  
>  
> Other classes might be TELEMETRY station, DIGIPEATER, HF GATE, and  
> IGATE... any others?

A handful of thoughts:

- o Somewhere I started a list that included trackers, GUI stations, non-GUI stations (e.g., HamHUD), stand-alone weather stations, ...
- o It is probably difficult to develop a meaningful list of station types; it probably makes sense to make a list of functions that a station might support. For example, it is probably easier to say that a station contains HF Gateway, Internet Gateway and Digipeater functions than it is to specify a digipeater, a digipeater with IGate function, a digipeater with HF Gate functions, etc.
- o It may make sense for the spec to read along the lines of "If an APRS-compliant implementation supports this function (e.g., telemetry), this is the way it ought to work..."

- o My guess is that, when it comes down to it, there is no function that all APRS stations need to implement in order to conform to the spec. For example, compare an [APRS compliant] tracker with an [APRS compliant] weather station; I suspect that there is no protocol feature that they must both implement. (Anyone should feel free to make up a bunch of examples to support this assertion, if there is any question...)

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 23 17:59:04 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA08145  
for <lyris.aprsspec@tapr.org>; Sun, 23 Jan 2000 17:59:00 -0600 (CST)  
Date: Sun, 23 Jan 2000 17:58:45 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-62260-2000.01.23-17.55.33--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Description of Object Format  
In-Reply-To: <LYR11595-60866-2000.01.16-15.04.41--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200001232358.RAA56598@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Sun, 16 Jan 2000 13:48:07 -0700  
> From: Jim Wagner <wagnerj@proaxis.com>  
> Subject: [aprsspec] Description of Object Format  
>  
> As many of you know, I am in the middle of creating a new APRS program.  
> This has lead me to look at these descriptions very carefully, because that  
> is all I have to work with (plus, of course, the great comments here on the  
> list). ...

This is one of the best tests of the quality of a protocol specification:  
for people to implement from the spec and then test their implementation  
against other implementations for interoperability. It would be really

nice if you wrote up your experiences with the APRS spec when you are done.

(I believe that one of the Pascal standardization efforts (the British Standards Association or some such thing, I think) insisted that only features that had been implemented in a single-pass compiler could be included in the language spec. Contrast this with some language specs that contain features that either can't be implemented or that people can't figure out how to implement in a standard fashion.)

By the way, you may also want to look at the various streams of APRS packets available from [www.aprs.net](http://www.aprs.net). This will help you learn about features not in the APRS spec, such as deprecated features, and some not unusual, but rather odd-ball, packet formats (such as packets that intermix TNC-2 and Timewave/AEA MONitor command output formats).

-tjs

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 25 07:35:03 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA16567  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 25 Jan 2000 07:35:02 -0600 (CST)  
From: "Rob Wittner" <[rmw@rwa-inc.com](mailto:rmw@rwa-inc.com)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] REJ vs. ACK  
Date: Tue, 25 Jan 2000 08:35:46 -0500  
Message-ID: <LYR11589-62525-2000.01.25-07.31.40--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
In-Reply-To: <LYR1679-62443-2000.01.24-16.29.59--RMW#RWA-INC.COM@lists.tapr.org>  
Importance: Normal  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <NCBBLCALKLCLLFGBMFCMKEEPDDAA.rmw@rwa-inc.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Hi, Bob... Rob here. (The CE guy.)

I was playing around with messaging on my CE version, and was sending messages to my dosAPRS station downstairs. The dos station has been running unattended for many moons, and had lots of messages and bulletins in the buffers. My messages to my station downstairs were being answered with REJnnn packets. What causes this? (I looked in the spec under messaging, but it's not mentioned. Or, I should say, I didn't see it.) My guess is that the arrays were full, so it was acknowledging the fact that it received the message but was unable to store it. (Right?)

Should this be included in the spec? (My guess is "yes.")

Thanks,

-Rob  
KZ5RW

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 25 08:07:25 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA17573  
for <lyris.aprsspec@tapr.org>; Tue, 25 Jan 2000 08:07:22 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 25 Jan 2000 09:06:33 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: REJ vs. ACK  
In-Reply-To: <LYR11586-62525-2000.01.25-07.31.40--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-62530-2000.01.25-08.04.01--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001250902390.18907-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Yes, good point. Although all the other APRS versions seem to have unlimited message storage capability, APRSdos does not and resorts to REJ instead of ACK packets. Yes, this should be included in the SPEC in my opinion. IN fact, Kewnood should also have included REJ algorithm since it can only receive 16 messages before it begins losing un-read msgs.

The beauty of it is that noone has to implement it, except the writer that has limited memory. The "sender" software doesn't care, since it will ignore the "REJ" and just keep assuming that the message is undelivered...

Bob

On Tue, 25 Jan 2000, Rob Wittner wrote:

> messages to my dosAPRS station downstairs. The dos station has been running  
> unattended for many moons, and had lots of messages and bulletins in the  
> buffers. My messages to my station downstairs were being answered with  
> REJnnn packets. What causes this? (I looked in the spec under messaging,  
> but it's not mentioned. Or, I should say, I didn't see it.) My guess is  
> that the arrays were full, so it was acknowledging the fact that it received  
> the message but was unable to store it. (Right?)  
>  
> Should this be included in the spec? (My guess is "yes.")  
>  
> Thanks,  
>  
> -Rob  
> KZ5RW  
>  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org  
>  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060

See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 25 11:55:39 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26329  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 25 Jan 2000 11:55:36 -0600 (CST)  
Message-ID: <LYR11589-62549-2000.01.25-11.52.13--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
From: Richard Carter <[rcarter@isi.com](mailto:rcarter@isi.com)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Kenwood TM-D700A  
Date: Tue, 25 Jan 2000 12:54:55 -0500  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <01BF6733.619D1220@lambchop.isi.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA26329

I just purchased a Kenwood TM-D700A. It is a new dual-band mobile unit that is APRS ready. When used in the APRS mode, there appears to be no way to interface the radio to an external computer. I had hoped that the serial port would send data to an external device. I could use it as a simple TNC with external control software, but the available APRS software doesn't support this device. Does anyone have experience with this radio?

Rich Carter - KE1EV

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)



From bounce-aprsspec-11589@lists.tappr.org Tue Jan 25 17:48:18 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA08617  
for <lyris.aprsspec@tappr.org>; Tue, 25 Jan 2000 17:48:16 -0600 (CST)  
Message-ID: <LYR11589-62573-2000.01.25-17.44.54--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Tue, 25 Jan 2000 17:47:41 -0600  
From: Tony Drumm <TonyDrumm@bresnanlink.net>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: REJ vs. ACK  
References: <LYR12196-62530-2000.01.25-08.04.01--  
TonyDrumm#bresnanlink.net@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <388E361D.CE7886B9@bresnanlink.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Bob,

The D700 does send REJ replies. One of the local D700's was responding with REJ packets. We dug into it to figure out why (and why they went away when he cleared all his messages). This was my guess. It turns out it's documented in the APRS section of the manual. If the messages haven't been read, it won't scroll them off the queue.

Tony

Bob Bruninga wrote:

>  
> Yes, good point. Although all the other APRS versions seem to have  
> unlimited message storage capability, APRSdos does not and resorts to REJ  
> instead of ACK packets. Yes, this should be included in the SPEC in my  
> opinion. IN fact, Kewnood should also have included REJ algorithm since  
> it can only receive 16 messages before it begins losing un-read msgs.  
>  
> The beauty of it is that noone has to implement it, except the writer that  
> has limited memory. The "sender" software doesn't care, since it will  
> ignore the "REJ" and just keep assuming that the message is undelivered...  
>

> Bob  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 25 22:27:52 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA16495  
for <lyris.aprsspec@tapr.org>; Tue, 25 Jan 2000 22:27:47 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 25 Jan 2000 23:27:28 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: REJ vs. ACK  
In-Reply-To: <388E361D.CE7886B9@bresnanlink.net>  
Message-ID: <LYR11589-62600-2000.01.25-22.24.27--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001252327090.8930-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Great! Thats what I told them to do.. Glad to see they did it that  
way...

bob

On Tue, 25 Jan 2000, Tony Drumm wrote:

> Bob,  
>

> The D700 does send REJ replies. One of the local D700's was responding with REJ  
> packets. We dug into it to figure out why (and why they went away when he  
> cleared all his messages). This was my guess. It turns out it's documented in  
> the APRS section of the manual. If the messages haven't been read, it won't  
> scroll them off the queue.

>

> Tony  
>  
> Bob Bruninga wrote:  
> >  
> > Yes, good point. Although all the other APRS versions seem to have  
> > unlimited message storage capability, APRSdos does not and resorts to REJ  
> > instead of ACK packets. Yes, this should be included in the SPEC in my  
> > opinion. IN fact, Kewnood should also have included REJ algorithm since  
> > it can only receive 16 messages before it begins losing un-read msgs.  
> >  
> > The beauty of it is that noone has to implement it, except the writer that  
> > has limited memory. The "sender" software doesn't care, since it will  
> > ignore the "REJ" and just keep assuming that the message is undelivered...  
> >  
> > Bob  
> >  
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 26 18:48:11 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA10086  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Wed, 26 Jan 2000 18:48:06 -0600 (CST)  
Message-ID: <LYR11589-62737-2000.01.26-18.44.48--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Date: Wed, 26 Jan 2000 16:45:05 -0800 (PST)  
From: James Wagner <[ka7ehk@yahoo.com](mailto:ka7ehk@yahoo.com)>  
Subject: [aprsspec] Storm Data  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000127004505.14263.qmail@web901.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello again, everyone.

On page 53 of the draft, Storm Data is discussed. It seems to imply that storm data can be included in (weatherless) standard position reports.

I would like some clarification as to the starting position of the storm report. Does the course and speed occupy the "data extension" field and displace anything else that might otherwise be there (such as PHG)? Or, does it follow the data extension field?

When parsing such messages, how can storm data be recognized as distinct from plain comment text? If display symbols are either /@ or \@, can the presence of storm data be "guaranteed"? If these symbols are absent, can it be guaranteed that there is NO storm data?

Many thanks,  
Jim, KA7EHK

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 26 18:58:19 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA10395  
for <lyris.aprsspec@tapr.org>; Wed, 26 Jan 2000 18:58:18 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Wed, 26 Jan 2000 19:57:57 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Storm Data  
In-Reply-To: <LYR11586-62737-2000.01.26-18.44.48--

bruninga#nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-62739-2000.01.26-18.55.01--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001261956460.241-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Wed, 26 Jan 2000, James Wagner wrote:

> I would like some clarification as to the starting position  
> of the storm report. Does the course and speed occupy the  
> "data extension" field and displace anything else that  
> might otherwise be there (such as PHG)? Or, does it follow the  
> data extension field?

Follows it. Since the storm usually has a cse and speed

>  
> When parsing such messages, how can storm data be recognized as  
> distinct from plain comment text? If display symbols are either  
> /@ or \@, can the presence of storm data be "guaranteed"? If these  
> symbols are absent, can it be guaranteed that there is NO  
> storm data?

Data may or may not be there. But if data is there, I only look for it if  
it is a /@ or \@

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 27 20:52:57 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA11829  
for <lyris.aprsspec@tapr.org>; Thu, 27 Jan 2000 20:52:53 -0600 (CST)  
Date: Thu, 27 Jan 2000 20:52:10 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>

Message-Id: <LYR11589-62952-2000.01.27-20.49.18--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Datums...  
Cc: aprsspec@lists.tapr.org  
In-Reply-To: <LYR8348-62949-2000.01.27-20.29.31--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200001280252.UAA90202@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> From: W01V@aol.com  
> Date: Thu, 27 Jan 2000 21:31:38 EST  
> Subject: [aprssig] Datums...  
> [...]  
> I haven't been around here to know if that topic has been addressed before,  
> but geographic coordinates given without a Datum can be misleading.  
>  
> With the FIVE decimals given for the coordinates above, the position is  
> within roughly a yard or so. But it could well be in the \*NAD 27\* datum. If  
> one's GPS is running WGS84, there could be a significant discrepancy -up to  
> thousands of feet I believe...

I think it might be nice if the APRS Protocol Description contained language  
similar to:

"All position data SHOULD use the WGS-84 datum."

(I was wondering when this would come up.)

((I was also wondering whether the APRS Protocol Description should  
recommend that APRS stations should try to average their position over  
time, rather than simply copying latest NMEA string. Of course this  
quickly gets more involved for moving stations...))

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 03:11:36 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA00160  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 03:11:36 -0600 (CST)  
Message-ID: <LYR11589-62993-2000.01.28-03.07.38--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 28 Jan 2000 08:49:53 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: [aprssig] Datums...  
References: <LYR8348-62949-2000.01.27-20.29.31--salo#networkcs.com@lists.tappr.org>  
<LYR13460-62952-2000.01.27-20.49.18--roger#peaksys.co.uk@lists.tappr.org>  
In-Reply-To: <LYR13460-62952-2000.01.27-20.49.18--  
roger#peaksys.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <eIc0cPAxgVk4Ewr\$@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR13460-62952-2000.01.27-20.49.18--roger#peaksys.co.uk@list  
s.tappr.org>, Tim Salo <salo@networkcs.com> writes  
>> From: W01V@aol.com  
>> Date: Thu, 27 Jan 2000 21:31:38 EST  
>> Subject: [aprssig] Datums...  
>> [...]  
>> I haven't been around here to know if that topic has been addressed before,  
>> but geographic coordinates given without a Datum can be misleading.  
>>  
>> With the FIVE decimals given for the coordinates above, the position is  
>> within roughly a yard or so. But it could well be in the \*NAD 27\* datum. If  
>> one's GPS is running WGS84, there could be a significant discrepancy -up to  
>> thousands of feet I believe...  
>  
>I think it might be nice if the APRS Protocol Description contained language  
>similar to:  
>  
> "All position data SHOULD use the WGS-84 datum."  
>  
>(I was wondering when this would come up.)

Interesting point... But what would users in parts of the world that  
don't use WGS-84 do? For instance all mapping in the UK is based on  
OSGB-36, and GPSs bought in the UK are configured to that datum.

Datum translation would be required for every posit transmitted and received.

--

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Roger Barker, G4IDE | roger@peaksys.co.uk                                                       |
| Boston              | <a href="http://www.packetradio.org.uk">http://www.packetradio.org.uk</a> |
| Lincolnshire, UK    | <a href="http://www.peaksys.co.uk">http://www.peaksys.co.uk</a>           |

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 09:19:44 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA18062  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 28 Jan 2000 09:19:41 -0600 (CST)  
From: Paul Keinanen <[keinanen@sci.fi](mailto:keinanen@sci.fi)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] Re: [aprssig] Datums...  
Date: Fri, 28 Jan 2000 17:21:11 +0200  
Message-ID: <LYR11589-63020-2000.01.28-09.16.30--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
References: <LYR8348-62949-2000.01.27-20.29.31--[salo#networkcs.com@lists.tapr.org](mailto:salo#networkcs.com@lists.tapr.org)>  
<LYR13460-62952-2000.01.27-20.49.18--[roger#peaksys.co.uk@lists.tapr.org](mailto:roger#peaksys.co.uk@lists.tapr.org)>  
<LYR13206-62993-2000.01.28-03.07.38--[Paul.Keinanen#sci.fi@lists.tapr.org](mailto:Paul.Keinanen#sci.fi@lists.tapr.org)>  
In-Reply-To: <LYR13206-62993-2000.01.28-03.07.38--  
[Paul.Keinanen#sci.fi@lists.tapr.org](mailto:Paul.Keinanen#sci.fi@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
X-MIME-Autoconverted: from 8bit to quoted-printable by [ds9.sci.fi](mailto:ds9.sci.fi) id RAA14388  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <msb39sch1lr9gm70ubfdeuqbhf0ql6j45h@4ax.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA18062

On Fri, 28 Jan 2000 08:49:53 +0000, Roger Barker <[roger@peaksys.co.uk](mailto:roger@peaksys.co.uk)>  
wrote:

>In article <LYR13460-62952-2000.01.27-20.49.18--[roger#peaksys.co.uk@list](mailto:roger#peaksys.co.uk@list)  
>s.tapr.org>, Tim Salo <[salo@networkcs.com](mailto:salo@networkcs.com)> writes  
>>> From: [W01V@aol.com](mailto:W01V@aol.com)



```
>>> Date: Thu, 27 Jan 2000 21:31:38 EST
>>> Subject: [aprssig] Datums...
>>> [...]
>>> I haven't been around here to know if that topic has been addressed before,
>>> but geographic coordinates given without a Datum can be misleading.
>>>
>>> With the FIVE decimals given for the coordinates above, the position is
>>> within roughly a yard or so. But it could well be in the *NAD 27* datum. If
>>> one's GPS is running WGS84, there could be a significant discrepancy -up to
>>> thousands of feet I believe...
>>
>>I think it might be nice if the APRS Protocol Description contained language
>>similar to:
>>
>>      "All position data SHOULD use the WGS-84 datum."
>>
>>(I was wondering when this would come up.)
>
>Interesting point... But what would users in parts of the world that
>don't use WGS-84 do? For instance all mapping in the UK is based on
>OSGB-36, and GPSs bought in the UK are configured to that datum.
```

Unfortunately the datum issue becomes more and more complicated when more and more DGPS services become available or if the SA is removed from the satellites. Currently the random errors due to SA and other errors sources are in the same order of magnitude as the difference between different coordination systems.

There is no problem as long as all persons involved in an operation are using the same datum, but does everyone know what datum should be used and how to setup in their own equipment? It is quite likely that equipment will be set to wrong datum and wrong types of maps are used, so there are real possibilities that search and rescue operations may fail due to this.

If an operation extends over a national border, it is quite likely that a different datum is used in each country and a physical point that is visible on many overlapping maps may have different coordinates depending on in which country (and in some cases even when) the map was printed. Adding to this confusion a generic GPS receiver will report the coordinate in WGS-84. The Maidenhead locator system should also be based on WGS-84, according to recent IARU Region 1 recommendation.

I think that the APRS 1.0 document should at least contain a warning about the confusion about coordinate systems. Possibly also recommend that the WGS-84 should be used, but if not possible due to e.g. maps in different systems can be used and at least recommend how all

participants in an operation should agree of which datum to use.

It might be a good idea to recommend that the full resolution format e.g. 07201.75W should be used only if it is in WGS-84 and the true resolution is 10-100 m and that the less accurate format e.g. 07201.7\_W should be used for an other datum, even if the position is known to a 10 m precision. This would reduce the risk of misunderstandings in the field.

One issue that should be addressed in some future version of the APRS standard is the inclusion of a orthogonal position format. In many countries local maps (e.g. 1:20000) are printed using some orthogonal coordinate system based on the UTM (Universal Transversal Mercator) or Gauss-Kruger system, in which a central meridian is selected and coordinates are reported as distance from the equator in meters and the (east/west) distance in meters perpendicular to this central meridian.

Paul OH3LWR

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 10:02:04 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA19926  
for <lyris.aprsspec@tapr.org>; Fri, 28 Jan 2000 10:02:03 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Fri, 28 Jan 2000 11:00:54 -0500 (EST)  
From: Bob Bruninga <bruninga@nadm.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Datums...  
In-Reply-To: <LYR11586-63020-2000.01.28-09.16.30--  
bruninga@nadm.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-63037-2000.01.28-09.58.38--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.05L.10001281057380.28555-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

APRS has always assumed WSG84. But then APRS was originally a USA only software. It is a tough issue.

I think though that we could simply list in the spec the "standard DATUM" for each "country" as a baseline reference. This way, everyone could then make the same "assumptions" as to what they are seeing.

For APRS version 2.0, we could look for a BYTE to add that would indicate the datum...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 28 10:41:31 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA21277  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 10:41:29 -0600 (CST)  
Message-ID: <LYR11589-63046-2000.01.28-10.38.15--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
From: Richard Carter <rcarter@isi.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprssig] Datums...  
Date: Fri, 28 Jan 2000 11:40:37 -0500  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <01BF6984.7F788E70@lambchop.isi.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk  
Content-Transfer-Encoding: 8bit  
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id KAA21277

There are really two issues here. The datum used should match the datum of mapping software used to display target position. If correct target vectors are to be computed, targets need to use the same datum.

On the surface, it might appear that this is not an issue, given large errors

introduced by selective activation. It has been my experience that GPS position reported by commercial receivers can be off by as much as 1/10th mile. This error may appear small, but may cause confusion if it were used for search and rescue operations. I haven't verified this, but I expect that the range and bearing from one target to another tends to be correct, assuming that both use the same datum, and neither uses differential correction. Extending the spec to include datum sounds like a wise plan. Who knows where APRS is headed.

BTW: For marine applications, GPS precision is marginal without it. I use a differential receiver, and I have noticed that they are becoming much more common. JRC makes a nice self-contained DGPS sensor at a very reasonable price. Raytheon, Furuno, and other manufacturers also have competitive products.

Rich Carter - KE1EV

-----Original Message-----

From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]  
Sent: Friday, January 28, 2000 11:01 AM  
To: APRS Spec Discussion List  
Cc: APRS Spec Discussion List  
Subject: [aprsspec] Re: [aprssig] Datums...

APRS has always assumed WSG84. But then APRS was originally a USA only software. It is a tough issue.

I think though that we could simply list in the spec the "standard DATUM" for each "country" as a baseline reference. This way, everyone could then make the same "assumptions" as to what they are seeing.

For APRS version 2.0, we could look for a BYTE to add that would indicate the datum...

---

You are currently subscribed to aprsspec as: rcarter@isi.com  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 28 12:52:00 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA25951  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 12:51:59 -0600 (CST)

Message-ID: <LYR11589-63061-2000.01.28-12.48.40--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 28 Jan 2000 13:51:33 -0500  
From: csuprin@mitre.org (Charles Suprin)  
Organization: The MITRE Corporation  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: aprsspec@lists.tapr.org (APRS Spec Discussion List)  
Subject: [aprsspec] Re: [aprssig] Datums...  
References: <LYR12284-63037-2000.01.28-09.58.38--csuprin#mitre.org@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <3891E535.C3434046@mitre.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Bob,

Would not it be easier to have APRS use a single datum worldwide. This would reduce the burden on implementers. Rather than having to implement converting many datums to many other datums they would only need to implement a conversion of the standard datum to the other datums.

I believe NMEA specify a datum to be used.

Also there are arguments discussing whether this is really even an issue.

GPS has an error around that of the different datums. APRS should not care how we get a position. Maybe people use loran, maybe people set their transmitters on top of geodetic markers. Either way it should show on the correct place on the map.

Just my \$.02

Charles

Comments mine not those of my employer.

Bob Bruninga wrote:

>

> APRS has always assumed WSG84. But then APRS was originally a USA only

> software. It is a tough issue.  
>  
> I think though that we could simply list in the spec the "standard DATUM"  
> for each "country" as a baseline reference. This way, everyone could then  
> make the same "assumptions" as to what they are seeing.  
>  
> For APRS version 2.0, we could look for a BYTE to add that would indicate  
> the datum...  
>  
> ---  
> You are currently subscribed to aprsspec as: csuprin@mitre.org  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 28 14:02:25 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28779  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 14:02:24 -0600 (CST)  
Message-ID: <LYR11589-63087-2000.01.28-13.59.11--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 28 Jan 2000 20:01:33 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Roger Barker <roger@peaksys.co.uk>  
Subject: [aprsspec] Re: [aprssig] Datums...  
References: <LYR12284-63037-2000.01.28-09.58.38--csuprin#mitre.org@lists.tappr.org>  
<LYR13460-63061-2000.01.28-12.48.40--roger#peaksys.co.uk@lists.tappr.org>  
In-Reply-To: <LYR13460-63061-2000.01.28-12.48.40--  
roger#peaksys.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <rCHZuBAdWfk4EwNS@peaksys.co.uk>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR13460-63061-2000.01.28-12.48.40--roger#peaksys.co.uk@lists.tappr.org>, Charles Suprin <csuprin@mitre.org> writes  
>Bob,  
>  
>Would not it be easier to have APRS use a single datum worldwide.

>This would reduce the burden on implementers. Rather than having to  
>implement converting many datums to many other datums they would only  
>need to implement a conversion of the standard datum to the other  
>datums.

Forgetting about GPSs for a moment, and looking at the basic practical  
issues involved in this:-

If I look up my location on a map in the UK, then the latitude and  
longitude I read off the map is referenced to OSGB-36. If someone in  
another part of the world does the same thing, then the latitude and  
longitude they read off their map is referenced to another datum.

I don't really think that anyone can seriously be expected to apply a  
Molodensky transformation to convert what they read off the map to  
WGS-84 before they put it into their software or TNC BTEXT!

Also, if my position referenced to OSGB-36 has an error of 100m or so  
when referenced to WGS-84, what practical difference is that going to  
make? (Unless you're planning to try and drop a cruise missile on my  
head! ;-) The only map data detailed enough to show the error is also  
likely to be referenced to OSGB\_36...

--

|                     |                                                                           |
|---------------------|---------------------------------------------------------------------------|
| Roger Barker, G4IDE | roger@peaksys.co.uk                                                       |
| Boston              | <a href="http://www.packetradio.org.uk">http://www.packetradio.org.uk</a> |
| Lincolnshire, UK    | <a href="http://www.peaksys.co.uk">http://www.peaksys.co.uk</a>           |

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 16:37:30 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04178  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Fri, 28 Jan 2000 16:37:28 -0600 (CST)  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-ID: <LYR11589-63103-2000.01.28-16.34.15--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)@lists.tapr.org>  
Date: Fri, 28 Jan 2000 16:37:18 -0600  
From: Gerry Creager N5JXS <[gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)>  
Reply-To: [gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)  
Organization: DaHouse  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
CC: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)> ,

aprsspec@lists.tapr.org  
Subject: [aprsspec] Re: [aprssig] Re: Datums...  
References: <LYR10429-62951-2000.01.27-20.49.11--gerry#cs.tamu.edu@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38921A1E.648AA4B1@cs.tamu.edu>  
Precedence: bulk

Tim Salo wrote:

```
>  
> > From: W01V@aol.com  
> > [...]  
> > I haven't been around here to know if that topic has been addressed before,  
> > but geographic coordinates given without a Datum can be misleading.  
> >  
> > With the FIVE decimals given for the coordinates above, the position is  
> > within roughly a yard or so. But it could well be in the *NAD 27* datum. If  
> > one's GPS is running WGS84, there could be a significant discrepancy -up to  
> > thousands of feet I believe...  
>  
> I think it might be nice if the APRS Protocol Description contained language  
> similar to:  
>  
> "All position data SHOULD use the WGS-84 datum."  
>  
> (I was wondering when this would come up.)
```

I've been avoiding this because it's likely to get me in a lecturing mode. If there's interest in selecting and using the appropriate datum, I'll be glad to get up on my soapbox, or at least refer you to a couple of well-written pages explaining what, why, etc.

I support Tim's suggestion that all collected data should be common, and for a variety of good reasons, WGS-84 is as good a selection as NAD-83. The problem is, most of the map basis we have for basemaps, Tiger files, are in NAD-27. In my particular area, the delta is about 120 m between NAD-83 and NAD-27. In another area of Texas I've looked at, it's on the order of 200m, and in a third, it's less than 10m.

What we need to do is go in search of newer basemaps, and develop new APRS maps from those. Specifically, we should be using maps based on NAD-83 or WGS-84 datums.



> ((I was also wondering whether the APRS Protocol Description should  
> recommend that APRS stations should try to average their position over  
> time, rather than simply copying latest NMEA string. Of course this  
> quickly gets more involved for moving stations...))

No. There's a couple or 5 good reason not to do this, not the least of which is, thanks to SA (it's still around!) and systematic errors, your average could well be off.

73, gerry n5jxs

--

|                                                                                               |                                       |
|-----------------------------------------------------------------------------------------------|---------------------------------------|
| Gerry Creager                                                                                 | Spatial Sciences Laboratory           |
| 409.845.7201 Office                                                                           | Texas Agricultural Experiment Station |
| 409.845.2273 Fax                                                                              | Texas A&M University System           |
| 409.228.7686 Pager (preferred)                                                                | College Station, Texas 77843-2120     |
| gerry@page4.tamu.edu                                                                          | Pager: 4092287686@mobile.att.net      |
| "Opinions expressed are mine and do not necessarily represent those of Texas A&M University." |                                       |

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 16:58:27 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04831  
for <lyris.aprsspec@tapr.org>; Fri, 28 Jan 2000 16:58:24 -0600 (CST)  
Message-ID: <LYR11589-63105-2000.01.28-16.55.11--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 28 Jan 2000 17:58:07 -0500  
From: csuprin@mitre.org (Charles Suprin)  
Organization: The MITRE Corporation  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: aprssig@lists.tapr.org (TAPR APRS Special Interest Group),  
aprsspec@lists.tapr.org  
Subject: [aprsspec] Re: [aprssig] Re: Datums...  
References: <LYR10429-62951-2000.01.27-20.49.11--gerry#cs.tamu.edu@lists.tapr.org>  
<LYR6787-63104-2000.01.28-16.34.19--csuprin#mitre.org@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <38921EFF.83063537@mitre.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> > ((I was also wondering whether the APRS Protocol Description should  
> > recommend that APRS stations should try to average their position over  
> > time, rather than simply copying latest NMEA string. Of course this  
> > quickly gets more involved for moving stations...))

>

> No. There's a couple or 5 good reason not to do this, not the least of  
> which is, thanks to SA (it's still around!) and systematic errors, your  
> average could well be off.

At the risk of sounding like an idiot, what are the five good reasons,  
not to average position?

Looking at my gps3 display it does seem to be a zero mean process.

I thought that the expected error with selective availability was zero  
mean.

More SA meant more variance. Less SA meant less variance.

COMMENTS: MINE NOT EMPLOYER.

Charles

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 28 17:13:30 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA05355  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 17:13:29 -0600 (CST)  
Message-ID: <LYR11589-63109-2000.01.28-17.10.18--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Fri, 28 Jan 2000 18:14:20 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Just rename APRS, was Re: Datums...  
References: <LYR12284-63037-2000.01.28-09.58.38--csuprin#mitre.org@lists.tappr.org>  
<LYR13460-63061-2000.01.28-12.48.40--roger#peaksys.co.uk@lists.tappr.org>  
<LYR11601-63087-2000.01.28-13.59.11--jeff#aerodata.net@lists.tappr.org>

Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <389222CB.E4E9DF15@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

I've got a solution for the datum issue.

Lets just rename APRS to AMERICAN Packet Reporting System. ;-)

(with due apologies to Canada and Mexico)

-Jeff

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 17:43:43 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA06257  
for <lyris.aprsspec@tapr.org>; Fri, 28 Jan 2000 17:43:38 -0600 (CST)  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Message-ID: <LYR11589-63112-2000.01.28-17.40.11--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 28 Jan 2000 17:39:13 -0600  
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>  
Reply-To: gerry@cs.tamu.edu  
Organization: DaHouse  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Just rename APRS, was Re: Datums...  
References: <LYR12284-63037-2000.01.28-09.58.38--csuprin#mitre.org@lists.tapr.org>  
<LYR13460-63061-2000.01.28-12.48.40--roger#peaksys.co.uk@lists.tapr.org>  
<LYR11601-63087-2000.01.28-13.59.11--jeff#aerodata.net@lists.tapr.org>  
<LYR10429-63110-2000.01.28-17.10.28--gerry#cs.tamu.edu@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <389228A1.8303136D@cs.tamu.edu>  
Precedence: bulk

Jeff King wrote:

>  
> I've got a solution for the datum issue.  
>  
> Lets just rename APRS to AMERICAN Packet Reporting System. ;-)

AHA! We can do that but then we'd have to standardize on NAD83, which was developed in concert with the geodetic organizations of Canada, the US, Mexico and most all of Central America.

73, gerry

--

|                                                                                               |                                       |
|-----------------------------------------------------------------------------------------------|---------------------------------------|
| Gerry Creager                                                                                 | Spatial Sciences Laboratory           |
| 409.845.7201 Office                                                                           | Texas Agricultural Experiment Station |
| 409.845.2273 Fax                                                                              | Texas A&M University System           |
| 409.228.7686 Pager (preferred)                                                                | College Station, Texas 77843-2120     |
| gerry@page4.tamu.edu                                                                          | Pager: 4092287686@mobile.att.net      |
| "Opinions expressed are mine and do not necessarily represent those of Texas A&M University." |                                       |

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 28 17:57:21 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA06789  
for <lyris.aprsspec@tapr.org>; Fri, 28 Jan 2000 17:57:21 -0600 (CST)  
Message-ID: <LYR11589-63118-2000.01.28-17.53.35--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Fri, 28 Jan 2000 19:56:37 -0800  
From: judyrod.padmore@ns.sympatico.ca (Rodney Padmore)  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,  
APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Just rename APRS, was Re: Datums...  
References: <LYR12284-63037-2000.01.28-09.58.38--csuprin#mitre.org@lists.tapr.org>

<LYR13460-63061-2000.01.28-12.48.40--roger#peaksys.co.uk@lists.tappr.org>  
<LYR11601-63087-2000.01.28-13.59.11--jeff#aerodata.net@lists.tappr.org>  
<LYR1562-63110-2000.01.28-17.10.28--  
JUDYROD.PADMORE#NS.SYMPATICO.CA@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <389264F5.470D@ns.sympatico.ca>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

Jeff King wrote:

>  
> I've got a solution for the datum issue.  
>  
> Lets just rename APRS to AMERICAN Packet Reporting System. ;-)  
>  
> (with due apologies to Canada and Mexico)  
>  
> -Jeff  
>  
> ---  
> You are currently subscribed to aprssig as: JUDYROD.PADMORE@NS.SYMPATICO.CA  
> To unsubscribe send a blank email to leave-aprssig-1562R@lists.tappr.orgMaybe  
NAFTAPRS would be an acceptable compromise! 73 de Rod,VE1BSK.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 28 19:48:58 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA10190  
for <lyris.aprsspec@tappr.org>; Fri, 28 Jan 2000 19:48:51 -0600 (CST)  
Message-ID: <LYR11589-63167-2000.01.28-19.45.33--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
From: "Brent Hildebrand" <bhildebrand@earthlink.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tappr.org>,  
<aprsspec@lists.tappr.org>  
References: <LYR10429-62951-2000.01.27-20.49.11--gerry#cs.tamu.edu@lists.tappr.org>  
<LYR6757-63104-2000.01.28-16.34.19--bhildebrand#earthlink.net@lists.tappr.org>  
Subject: [aprsspec] Re: [aprssig] Re: Datums...

Date: Fri, 28 Jan 2000 17:48:25 -0800  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <00a101bf69fa\$f0058fa0\$0295b3d1@celeron>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Three years ago, I asked the same question about the Datum of APRS SIG. There was no definitive answer back then. I was thinking about making DeLorme Street Atlas USA available for APRS use, and it used WGS-84. Fortunately, more GPS receiver default output to WGS-84, so it was not a major issue. However, I discovered that some online maps such as MapBlast, used by the APRS+SA web server, a feature copied by APRServe and recently by WinAPRS, uses NAD-27. So with these web based maps, you may find that you are not exactly where you think you are, complicated by Selective Availability (SA) of course. APRS+SA's web server does perform a transform of data to NAD-27, and assumes the on-air data is in WGS-84. APRS+SA allows for the entry of Lat/Long in more than 100 map datums, and converts the data to WGS-84 for transmission.

Brent Hildebrand, KH2Z

APRS+SA  
<http://www.tapr.org/~kh2z/aprsplus>

[]

----- Original Message -----

From: Gerry Creager N5JXS <[gerry@cs.tamu.edu](mailto:gerry@cs.tamu.edu)>  
To: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>  
Cc: TAPR APRS Special Interest Group <[aprssig@lists.tapr.org](mailto:aprssig@lists.tapr.org)>;  
<[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Sent: Friday, January 28, 2000 2:37 PM  
Subject: [aprssig] Re: Datums...

> Tim Salo wrote:

> >  
> > > From: W01V@aol.com  
> > > [...]   
> > > I haven't been around here to know if that topic has been addressed  
before,  
> > > but geographic coordinates given without a Datum can be misleading.  
> > >  
> > > With the FIVE decimals given for the coordinates above, the position  
is  
> > > within roughly a yard or so. But it could well be in the \*NAD 27\*  
datum. If  
> > > one's GPS is running WGS84, there could be a significant  
discrepancy -up to  
> > > thousands of feet I believe...  
> >  
> > I think it might be nice if the APRS Protocol Description contained  
language  
> > similar to:  
> >  
> > "All position data SHOULD use the WGS-84 datum."  
> >  
> > (I was wondering when this would come up.)  
>  
> I've been avoiding this because it's likely to get me in a lecturing  
> mode. If there's interest in selecting and using the appropriate datum,  
> I'll be glad to get up on my soapbox, or at least refer you to a couple  
> of well-written pages explaining what, why, etc.  
>  
> I support Tim's suggestion that all collected data should be common, and  
> for a variety of good reasons, WGS-84 is as good a selection as NAD-83.  
> The problem is, most of the map basis we have for basemaps, Tiger files,  
> are in NAD-27. In my particular area, the delta is about 120 m between  
> NAD-83 and NAD-27. In another area of Texas I've looked at, it's on the  
> order of 200m, and in a third, it's less than 10m.  
>  
> What we need to do is go in search of newer basemaps, and develop new  
> APRS maps from those. Specifically, we should be using maps based on  
> NAD-83 or WGS-84 datums.  
>  
> > ((I was also wondering whether the APRS Protocol Description should  
> > recommend that APRS stations should try to average their position over  
> > time, rather than simply copying latest NMEA string. Of course this  
> > quickly gets more involved for moving stations...))  
>  
> No. There's a couple or 5 good reason not to do this, not the least of  
> which is, thanks to SA (it's still around!) and systematic errors, your  
> average could well be off.  
>

> 73, gerry n5jxs  
> --  
> Gerry Creager                                Spatial Sciences Laboratory  
> 409.845.7201 Office                        Texas Agricultural Experiment Station  
> 409.845.2273 Fax                           Texas A&M University System  
> 409.228.7686 Pager (preferred)           College Station, Texas 77843-2120  
> gerry@page4.tamu.edu                      Pager: 4092287686@mobile.att.net  
> "Opinions expressed are mine and do not necessarily represent those of  
> Texas A&M University."  
>  
> ---  
> You are currently subscribed to aprssig as: bhildebrand@earthlink.net  
> To unsubscribe send a blank email to leave-aprssig-6757S@lists.tappr.org  
>  
>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 29 20:00:03 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA08399  
for <lyris.aprsspec@tappr.org>; Sat, 29 Jan 2000 20:00:03 -0600 (CST)  
Message-ID: <LYR11589-63347-2000.01.29-19.56.57--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Sat, 29 Jan 2000 21:00:57 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
CC: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>,  
aprsspec@lists.tappr.org  
Subject: [aprsspec] Position ambiguity, AGAIN, was Re: D700 Position  
References: <000401bf6a6f\$242ce7a0\$2c988bce@im.hou.compaq.com>  
<LYR12477-63252-2000.01.29-09.43.02--fminton#midwest.net@lists.tappr.org>  
<LYR8644-63338-2000.01.29-19.04.41--jeff#aerodata.net@lists.tappr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <38939B58.3CEF3783@aerodata.net>



Sender: bounce-aprsspec-11589@lists.tapir.org  
Precedence: bulk

There seems to be a compliance issue among some of the APRS programs and the APRSspec item "position ambiguity". This came up a week or two ago on the SIG, and all that was said was that it was part of the spec. Fine, but this "APRS-SPEC" doesn't help much if people don't write compliant software.

Being I'm of the mind that navigation is a life and death issue, I think this might need to be addressed by the APRS-WG. In particular, a list of non compliant applications should be published to head off any potential liability issues. This should include both the present APRS trademark licenses as well as compatible programs.

-Jeff

P.S. We now have a off the shelf radio, PLUG and PLAY, so to speak, supporting APRS, made by a major amateur manufacturer. This manufacturer, in good faith, wrote their software to be complaint with a pre-release version of the APRS-SPEC. Yet at this late date, apparently even some of the core applications are still not complaint. Call me all the names you want, but as soon as someone dies because their posit is displayed 1000 miles in error, you'll wish you either had a disclaimer or were compliant with the very spec you are writing.

P.P.S. Advance apologies if this has already been fixed or its actually a Kenwood problem. Its just the second time this has come up in the last two weeks and I know at least one application was still non compliant in December of 1999.

Richard \"Flip\" Minton wrote:

> Ok, figured it out. In the APRS menu selection 3-5 it allows  
> you to adjust position ambiguity. Which varies your position  
> accuracy. With the setting in the "off" position things are correct.  
>  
> Flip

>  
> ----- Original Message -----  
> From: Richard "Flip" Minton <fminton@midwest.net>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapir.org>  
> Cc: APRS <aprssig@lists.tapir.org>  
> Sent: Saturday, January 29, 2000 9:45 AM  
> Subject: [aprssig] Re: D700 Position

>  
> > Nope, if it was east I'd be in Europe. I'm showing out in the four  
> > corners area of the states instead of Illinois.  
> >  
> > The string is showing 3700.00N\10855.05W on the Winaprs  
> > screen. Should be 3753.90N/08855.05W  
> >  
> > And the radio shows the correct coordinates, checked and double checked  
> >  
> > Flip  
> >  
> >  
> >  
> > ----- Original Message -----  
> > From: Walter Holmes <walterh@houston-intranet.com>  
> > To: 'Richard "Flip" Minton' <fminton@midwest.net>  
> > Sent: Saturday, January 29, 2000 9:40 AM  
> > Subject: RE: [aprssig] D700 Position  
> >  
> >  
> > > Sounds like you may have selected East, instead of West on one of your  
> > > coordinates..  
> > >  
> > > Very common problem that many of us have bumped into as well.  
> > >  
> > > Walter/K5WH  
> > >  
> > > -----Original Message-----  
> > > From: bounce-aprssi-2077@lists.tapr.org  
> > > [mailto:bounce-aprssi-2077@lists.tapr.org] On Behalf Of Richard "Flip"  
> > > Minton  
> > > Sent: Saturday, January 29, 2000 9:05 AM  
> > > To: TAPR APRS Special Interest Group  
> > > Subject: [aprssi] D700 Position  
> > >  
> > > Hi, playing with a D700 here, and found that I am showing  
> > > up on my map with an error of about a thousand miles  
> > > on the longitude display. Position has been entered correctly  
> > > both manually and from the GPS. The unit shows the correct  
> > > grid square, and has the proper mileage to local stations.  
> > > But on Win APRS 2.4.3 I'm off a bunch. Any ideas?  
> > >  
> > > Flip Minton N9AZZ  
> > > fminton@midwest.net  
> > >  
> > >  
> > >  
> > > ---

> > > You are currently subscribed to aprssig as: K5WH@HOUSTON-INTRANET.COM  
> > > To unsubscribe send a blank email to leave-aprssig-8644D@lists.tappr.org  
> > >  
> > >  
> >  
> >  
> > ---  
> > You are currently subscribed to aprssig as: fminton@midwest.net  
> > To unsubscribe send a blank email to leave-aprssig-8644D@lists.tappr.org  
> >  
> >  
>  
> ---  
> You are currently subscribed to aprssig as: jeff@aerodata.net  
> To unsubscribe send a blank email to leave-aprssig-8644D@lists.tappr.org

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 29 23:10:43 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA14412  
for <lyris.aprsspec@tappr.org>; Sat, 29 Jan 2000 23:10:39 -0600 (CST)  
Message-Id: <LYR11589-63374-2000.01.29-23.07.33--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 29 Jan 2000 22:10:26 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] What happened to ?ping?  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <l03130301b4b977bfc523@[198.106.196.222]>  
<LYR11893-63198-2000.01.29-00.00.39--wagnerj#proaxis.com@lists.tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I had the great opportunity to visit with 30 or so APRS folks this  
afternoon. I had a chance to see a variety of APRS machinery in operation.

One of the stations was sending ?ping? queries to another. I asked where it

came from as I did not recognize it from the draft specs. He said that it was part of dosAPRS.

So, the question: where is it? Gone? Overlooked?

Thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 30 00:04:01 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23328  
for <lyris.aprsspec@tapr.org>; Sun, 30 Jan 2000 00:04:00 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sun, 30 Jan 2000 01:02:58 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: What happened to ?ping?  
In-Reply-To: <LYR11586-63374-2000.01.29-23.07.33--  
bruninga#nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-63382-2000.01.30-00.00.49--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001300101230.20082-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

IM not sure. It was there back 8 years ago as a do-nothing packet. Just a way to send a packet that would NOT get interpreted as anything but did allow you to test packets on theair. I have not supported it in years, yet I get ?PIING? messages from folks often. So it must be some other version doing it. I dont know what the proper response is supposed to be...?

Bob

On Sat, 29 Jan 2000, Jim Wagner wrote:

> I had the great opportunity to visit with 30 or so APRS folks this  
> afternoon. I had a chance to see a variety of APRS machinery in operation.  
>  
> One of the stations was sending ?ping? queries to another. I asked where it  
> came from as I did not recognize it from the draft specs. He said that it  
> was part of dosAPRS.  
>  
> So, the question: where is it? Gone? Overlooked?  
>  
> Thanks,  
>  
> Jim Wagner  
> Oregon Research Electronics  
> -----  
> wagnerj@proaxis.com                      Tangent, Oregon 97389  
> KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
> ka7ehk@yahoo.com                        Oregon State University  
> -----  
> A computer without Windows is like a cake without mustard. - anonymous  
>  
>  
>  
>  
> ---  
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil  
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org  
>  
>

APRSDos REPLY/COMMENT:

Reply mail addr:   wb4apr@amsat.org  
US mail address:   115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY:   <http://web.usna.navy.mil/~bruninga/dayton.html>  
See Maryland APRS LIVE:   <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio:   <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 31 15:32:49 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02891  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 31 Jan 2000 15:32:47 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 31 Jan 2000 16:32:17 -0500 (EST)  
From: Bob Bruninga <[bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)>  
X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] AX.25 TOCALLS and "TELEM"  
In-Reply-To: <[LYR11586-63347-2000.01.29-19.56.57--bruninga@nadn.navy.mil@lists.tapr.org](mailto:LYR11586-63347-2000.01.29-19.56.57--bruninga@nadn.navy.mil@lists.tapr.org)>  
Message-ID: <[LYR11589-63699-2000.01.31-15.29.32--lyris.aprsspec@tapr.org@lists.tapr.org](mailto:LYR11589-63699-2000.01.31-15.29.32--lyris.aprsspec@tapr.org@lists.tapr.org)>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <[Pine.GSO.4.05L.10001311629450.12783-100000@arctic](mailto:Pine.GSO.4.05L.10001311629450.12783-100000@arctic)>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>

SPEC group...

When we made the list of allowable AX.25 DESTINATION calls, I extracted out of APRSdos the ones that I thought were generic and could be justified to you guys. But over the years, APRSdos had collected over 31 such specific generic calls that I have seen used with specific UI type data and wanted to capture.. So they are in APRSdos, but only the more obvioius ones made it into the spec...

Well, we forgot one. Its in APRSdos, but not in the spec.. It is TEL (for telemetry). What we put in the spec was TLM.. I figured that is what the PACSATS use... so why not standardize on it...

Well last weeks launch of STENSAT I just learned uses the call of TELEM. So, fortunately APRSdos users will see the packet, but a fully compliant

software IAW the spec will not, without disabling ALTNETS. So I recommend we add TEL... to the spec...

Of course if STENSAT turns out to not turn on (in 3 days when it is supposed to, then it is a moot point. But if it does turn on... ARGH!!!

YIKES, the Kenwoods wont decode it!!! I wonder.... Sheesh.....

Yep, just tested it and the kenwoods dont include TELEM either...

Gosh, I sure wish the builders of satellites (on the same campus as I am) would have ASKED me first.... I was not even aware of the project until after it was in the can!

The good news is that the Kewnoods can receive it by changin to the ALTNET call of TELEM... (An then NOT forgetting to turn back afterwards)...

Bob

----- Forwarded message -----

Date: Mon, 31 Jan 2000 15:32:13 -0500 (EST)

From: Bob Bruninga <bruninga@nadm.navy.mil>

To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Subject: [aprssig] STENSAT

APRSdom...

I am happy to report that the STENSAT telemetry was built with a modified MIM and therefore the telemetry will be APRS decodable! So when the satellite is deployed on Wednesday, we should be able to capture it with your APRS software and more importatnly with your Kenwood Radios!

I have no more info at this point. You will be the first to know when I find out the telemetry equations... and activation times...

de WB4APR,Bob

-----

From: Hank Heidt

Cc: Assoc Prof Carl E Wick

StenSat's telemetry should be APRS compliant. It is a TELEMETRY packet with a "T#" preamble:

N4AFL-1>TELEM<UI C>: T#000,255,004,037,129,032,010 STENSAT PICOSAT

where the Telemetry numbers are (in order):

Sequence number - goes to 255, then rolls to zero

Power supply monitor  
Current monitor  
Temp monitor  
2.5 volt reference  
Current RSSI value  
Three light sensors (low value means light is striking the sensor):  
Light sensor values are (in order):  
Flat face (3 by 4 inches)  
Long side (1 by 4 inches)  
Short side (1 by 3 inches)

---

You are currently subscribed to aprssig as: [bruninga@nadn.navy.mil](mailto:bruninga@nadn.navy.mil)  
To unsubscribe send a blank email to [leave-aprssi-10461M@lists.tappr.org](mailto:leave-aprssi-10461M@lists.tappr.org)

---

You are currently subscribed to aprsspec as: [lyris.aprssipec@tappr.org](mailto:lyris.aprssipec@tappr.org)  
To unsubscribe send a blank email to [leave-aprssipec-11589P@lists.tappr.org](mailto:leave-aprssipec-11589P@lists.tappr.org)

From bounce-aprssipec-11589@lists.tappr.org Mon Jan 31 15:41:29 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03283  
for <[lyris.aprssipec@tappr.org](mailto:lyris.aprssipec@tappr.org)>; Mon, 31 Jan 2000 15:41:29 -0600 (CST)  
Message-ID: <LYR11589-63703-2000.01.31-15.38.19--  
[lyris.aprssipec@tappr.org](mailto:lyris.aprssipec@tappr.org)>  
From: "Sadowski, Allan" <[allan.sadowski@ncshp.org](mailto:allan.sadowski@ncshp.org)>  
To: "APRS Spec Discussion List" <[aprssipec@lists.tappr.org](mailto:aprssipec@lists.tappr.org)>  
Cc: APRS Spec Discussion List <[aprssipec@lists.tappr.org](mailto:aprssipec@lists.tappr.org)>  
Subject: [aprssipec] RE: AX.25 TOCALLS and "TELEM"  
Date: Mon, 31 Jan 2000 16:45:10 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <<mailto:leave-aprssipec-11589P@lists.tappr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprssipec@lists.tappr.org>>  
List-Owner: <<mailto:owner-aprssipec@lists.tappr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6AA0@SHPMAIL>  
Sender: bounce-aprssipec-11589@lists.tappr.org  
Precedence: bulk

Bob



I know the goal is to squeeze every last byte out of transmissions... but TLM and TEL are no where near as clear as TELEM...

Since you are throwing proposal issues on the table.. can I second that TELEM be the "standard".... it's a whole lot LESS AMBIGUOUS than the other two .... the cat is sorta outta the bag now... no?

ALPHA  
AH6LS

```
> -----Original Message-----
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]
> Sent: Monday, January 31, 2000 4:32 PM
> To: APRS Spec Discussion List
> Cc: APRS Spec Discussion List
> Subject: [aprsspec] AX.25 TOCALLS and "TELEM"
>
> SPEC group...
>
> When we made the list of allowable AX.25 DESTINATION calls, I extracted
> out of APRSdos the ones that I thought were generic and could be
> justified to you guys. But over the years, APRSdos had collected over 31
> such specific generic calls that I have seen used with specific UI type
> data and wanted to capture.. So they are in APRSdos, but only the more
> obvious ones made it into the spec...
>
> Well, we forgot one. Its in APRSdos, but not in the spec.. It is TEL
> (for telemetry). What we put in the spec was TLM.. I figured that is
> what the PACSATS use... so why not standardize on it...
>
> Well last weeks launch of STENSAT I just learned uses the call of TELEM.
> So, fortunately APRSdos users will see the packet, but a fully compliant
> software IAW the spec will not, without disabling ALTNETS. So I recommend
> we add TEL... to the spec...
>
> Of course if STENSAT turns out to not turn on (in 3 days when it is
> supposed to, then it is a moot point. But if it does turn on... ARGH!!!
>
> YIKES, the Kenwoods wont decode it!!! I wonder.... Sheesh.....
>
> Yep, just tested it and the kenwoods dont include TELEM either...
>
> Gosh, I sure wish the builders of satellites (on the same campus as I am)
> would have ASKED me first.... I was not even aware of the project until
> after it was in the can!
>
> The good news is that the Kewnoods can receive it by changin to the ALTNET
> call of TELEM... (An then NOT forgetting to turn back afterwards)...
```

>  
>  
> Bob  
>  
> ----- Forwarded message -----  
> Date: Mon, 31 Jan 2000 15:32:13 -0500 (EST)  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>  
> Subject: [aprssig] STENSAT  
>  
> APRSdom...  
> I am happy to report that the STENSAT telemetry was built with a  
> modified MIM and therefore the telemetry will be APRS decodable!  
> So when the satellite is deployed on Wednesday, we should be able to  
> capture it with your APRS software and more importantly with your Kenwood  
> Radios!  
>  
> I have no more info at this point. You will be the first to know when I  
> find out the telemetry equations... and activation times...  
>  
> de WB4APR,Bob  
> -----  
> From: Hank Heidt  
> Cc: Assoc Prof Carl E Wick  
>  
> StenSat's telemetry should be APRS compliant. It is a TELEMETRY  
> packet with a "T#" preamble:  
>  
> N4AFL-1>TELEM<UI C>: T#000,255,004,037,129,032,010 STENSAT PICOSAT  
>  
> where the Telemetry numbers are (in order):  
> Sequence number - goes to 255, then rolls to zero  
> Power supply monitor  
> Current monitor  
> Temp monitor  
> 2.5 volt reference  
> Current RSSI value  
> Three light sensors (low value means light is striking the sensor):  
> Light sensor values are (in order):  
> Flat face (3 by 4 inches)  
> Long side (1 by 4 inches)  
> Short side (1 by 3 inches)  
>

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jan 31 15:48:37 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03539  
for <lyris.aprsspec@tappr.org>; Mon, 31 Jan 2000 15:48:34 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 31 Jan 2000 16:47:45 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] RE: AX.25 TOCALLS and "TELEM"  
In-Reply-To: <LYR11586-63703-2000.01.31-15.38.19--  
bruninga#nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-63705-2000.01.31-15.45.28--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.10001311646450.12783-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Mon, 31 Jan 2000, Sadowski, Allan wrote:

> I know the goal is to squeeze every last byte out of transmissions... but  
> TLM and TEL are no where near as clear as TELEM...  
>  
> Since you are throwing proposal issues on the table.. can I second that  
> TELEM be the "standard".... it's a whole lot LESS AMBIGUOUS than the  
> other two .... the cat is sorta outta the bag now... no?

Yes, remember these are all right-wilcarded, so TEL will accept TELEM...  
yet still allow for other subsets....

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 31 15:56:46 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03819  
for <lyris.aprsspec@tapr.org>; Mon, 31 Jan 2000 15:56:43 -0600 (CST)  
Date: Mon, 31 Jan 2000 16:53:28 -0500  
From: Mark Sproul <kb2ici@amsat.org>  
Subject: [aprsspec] Re: What happened to ?ping?  
X-Sender: msproul@apmail.ap.org  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Message-id: <LYR11589-63708-2000.01.31-15.53.37--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-version: 1.0  
X-MIMETrack: Itemize by SMTP Server on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July  
1999) at  
01/31/2000 04:51:24 PM,  
Serialize by Router on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July 1999) at  
01/31/2000 04:51:31 PM,  
Serialize complete at 01/31/2000 04:51:31 PM  
X-Priority: 3 (Normal)  
Content-type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v03110721b4bbb4a473ab@[165.1.27.20]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

At 12:10 AM -0500 1/30/00, Jim Wagner wrote:  
>I had the great opportunity to visit with 30 or so APRS folks this  
>afternoon. I had a chance to see a variety of APRS machinery in operation.  
>  
>One of the stations was sending ?ping? queries to another. I asked where it  
>came from as I did not recognize it from the draft specs. He said that it  
>was part of dosAPRS.  
>  
>So, the question: where is it? Gone? Overlooked?  
>  
>Thanks,  
>

WinAPRS implements ?PING? exactly the same as ?APRST which is Trace route.  
Therefore ?PING? is kind of redundant since ?APRST does the same thing.

Mark

---

PLEASE NOTE NEW EMAIL ADDRESS

!!!!!!!!!!!!!!

msproul@apmail.ap.org

---

|                                 |                    |
|---------------------------------|--------------------|
| Mark Sproul                     |                    |
| Software Engineer @ Assoc Press | Work: 609-860-7120 |
| msproul@apmail.ap.org           | Fax: 609-860-7129  |

---

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 1 10:37:35 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA24923  
for <lyris.aprsspec@tappr.org>; Tue, 1 Feb 2000 10:37:34 -0600 (CST)  
Date: Tue, 1 Feb 2000 10:36:53  
Subject: [aprsspec] Flag Byte Error?  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: "Michael Pendley" <mycall@sandia.gov>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Message-Id: <LYR11589-63911-2000.02.01-10.34.29--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Precedence: bulk

I just joined the list today so I am late to the table and may have missed any discussion on this. However, I searched the list and found no post on this subject. Sorry if this is old news.

On page 12 of the APRS Spec (Draft Version 1.0.1g: 3 December 1999) -- Flag is defined to be the bit sequence 0x7F. I believe this should be 0x7E

-Mike

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 1 11:09:29 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26489  
for <lyris.aprsspec@tappr.org>; Tue, 1 Feb 2000 11:09:28 -0600 (CST)  
Message-ID: <LYR11589-63917-2000.02.01-11.06.21--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Tue, 1 Feb 2000 17:06:00 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <ian@dowrmain.demon.co.uk>  
Reply-To: Ian Wade <ianwade@netro.co.uk>  
Subject: [aprsspec] Re: Flag Byte Error?  
In-Reply-To: <LYR11659-63911-2000.02.01-10.34.29--  
ian#dowrmain.demon.co.uk@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <fFVXyaA4Jx14EwDf@dowrmain.demon.co.uk>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR11659-63911-2000.02.01-10.34.29--ian@dowrmain.demon.co.uk@lists.tapr.org>, Michael Pendley <mycall@sandia.gov> writes  
>  
>On page 12 of the APRS Spec (Draft Version 1.0.1g: 3 December 1999) -- Flag  
>is defined to be the bit sequence 0x7F. I believe this should be 0x7E  
>

Yup, I don't know what I was doing when I typed 0x7f ... I've only known it was 0x7e since 1983 ..... :-))

It will be fixed in the next release.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |  
+-----+

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 2 20:53:39 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA19544  
for <lyris.aprsspec@tapr.org>; Wed, 2 Feb 2000 20:53:38 -0600 (CST)  
Date: Wed, 2 Feb 2000 20:52:15 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-64185-2000.02.02-20.49.30--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: AX.25 TOCALLS and "TELEM"  
In-Reply-To: <LYR11595-63699-2000.01.31-15.29.32--

salonetworkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200002030252.UAA88388@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Mon, 31 Jan 2000 16:32:17 -0500 (EST)  
> From: Bob Bruninga <bruninga@nadn.navy.mil>  
> Subject: [aprsspec] AX.25 TOCALLS and "TELEM"  
>  
> When we made the list of allowable AX.25 DESTINATION calls, I extracted  
> out of APRSdos the ones that I thought were generic and could be  
> justified to you guys. But over the years, APRSdos had collected over 31  
> such specific generic calls that I have seen used with specific UI type  
> data and wanted to capture.  
> [...]

It sounds like it might be worthwhile to rethink how the destination  
AX.25 address is used APRS. In particular, how to make whatever use is  
made of this field extensible.

(By the way, I started thinking about all of the international call signs  
that might conflict with the generic call signs...)

> So they are in APRSdos, but only the more  
> obvious ones made it into the spec...

Will APRSdos be upgraded to conform to the spec once it is finalized?

> YIKES, the Kenwoods won't decode it!!! I wonder.... Sheesh.....  
> Yep, just tested it and the Kenwoods don't include TELEM either...

[Insert long diatribe about the evils of hard-coded rigs, TNCs, and  
just about anything else that implements a communications protocol here.]

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 2 20:56:47 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])



by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA19593  
for <lyris.aprsspec@tapr.org>; Wed, 2 Feb 2000 20:56:44 -0600 (CST)  
Date: Wed, 2 Feb 2000 20:56:31 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-64186-2000.02.02-20.53.46--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: What happened to ?ping?  
In-Reply-To: <LYR11595-63708-2000.01.31-15.53.37--  
salo#networkcs.com@lists.tapr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200002030256.UAA88428@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

> Date: Mon, 31 Jan 2000 16:53:28 -0500  
> From: Mark Sproul <kb2ici@amsat.org>  
> Subject: [aprsspec] Re: What happened to ?ping?  
>  
> At 12:10 AM -0500 1/30/00, Jim Wagner wrote:  
> >I had the great opportunity to visit with 30 or so APRS folks this  
> >afternoon. I had a chance to see a variety of APRS machinery in operation.  
> >  
> >One of the stations was sending ?ping? queries to another. I asked where it  
> >came from as I did not recognize it from the draft specs. He said that it  
> >was part of dosAPRS.  
> >  
> >So, the question: where is it? Gone? Overlooked?  
>  
> WinAPRS implements ?PING? exactly the same as ?APRST which is Trace route.  
> Therefore ?PING? is kind of redundant since ?APRST does the same thing.

?APRST is in the spec, but ?PING? is not.

What are you proposing?

To change the spec?

To upgrade WinAPRS?

To let the spec and WinAPRS diverge?

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 3 11:38:41 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA28661  
for <lyris.aprsspec@tapr.org>; Thu, 3 Feb 2000 11:38:39 -0600 (CST)  
Date: Thu, 03 Feb 2000 12:37:35 -0500  
From: Mark Sproul <kb2ici@amsat.org>  
Subject: [aprsspec] Re: What happened to ?ping?  
<LYR11591-64186-2000.02.02-20.53.46--msproul#apmail.ap.org@lists.tapr.org>  
X-Sender: msproul@apmail.ap.org  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Message-id: <LYR11589-64257-2000.02.03-11.35.35--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-version: 1.0  
<LYR11595-63708-2000.01.31-15.53.37--salo#networkcs.com@lists.tapr.org>  
X-MIMETrack: Itemize by SMTP Server on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July  
1999) at  
02/03/2000 12:33:16 PM,  
Serialize by Router on APRelay2/TheAP(Release 5.0.1 (Intl)|16 July 1999) at  
02/03/2000 12:33:21 PM,  
Serialize complete at 02/03/2000 12:33:21 PM  
X-Priority: 3 (Normal)  
Content-type: text/plain; charset="us-ascii"  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <v03110707b4bf6c7788f0@[165.1.27.20]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>>

>> WinAPRS implements ?PING? exactly the same as ?APRST which is Trace route.

>> Therefore ?PING? is kind of redundant since ?APRST does the same thing.

>

>?APRST is in the spec, but ?PING? is not.

>

>What are you proposing?

>

>To change the spec?

>

>To upgrade WinAPRS?

>  
>To let the spec and WinAPRS diverge?  
>

I am not proposing anything

?APRST is the official SPEC version, I had ?PING? in a long time ago to be sort of compatible with the ?PING? that Bob had. I have not gotten around to removing it.

As I stated above, in WinAPRS, "?PING?" and "?APRST" currently do the EXACT same thing. I don't see any issue here. I can easily remove PING if needed.

Mark

---

PLEASE NOTE NEW EMAIL ADDRESS  
!!!!!!!!!!!!!!

msproul@apmail.ap.org

---

|                                 |                    |
|---------------------------------|--------------------|
| Mark Sproul                     |                    |
| Software Engineer @ Assoc Press | Work: 609-860-7120 |
| msproul@apmail.ap.org           | Fax: 609-860-7129  |

---

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 3 15:24:18 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA07357  
for <lyris.aprsspec@tapr.org>; Thu, 3 Feb 2000 15:24:17 -0600 (CST)  
Message-ID: <LYR11589-64300-2000.02.03-15.21.11--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Thu, 03 Feb 2000 16:24:53 -0500  
From: Jeff King <jeff@aerodata.net>  
Organization: Aero Data Systems, Inc.  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: [aprssig] Re: xastir (was: Re: What is APRSdos anyway?)

References: <LYR8644-64278-2000.02.03-13.24.42--jeff#aerodata.net@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <3899F225.A6B9CBC7@aerodata.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

John Ackermann wrote:

> Jeff King writes:  
>  
> >Last time I asked, Frank and Roger Barker (author of UI-View)  
> >were excluded from the APRS-WG. So while we can guess its  
> >the fact Frank is releasing his source, how would you explain the  
> >'dis' of Roger from the APRS-WG?( Roger doesn't release his  
> >source.)  
>  
> To my knowledge, neither Roger nor Frank have asked to join the Working  
> Group. If they do ask, the Charter has a process for voting on new  
> members. I can't speak to how the members might vote on any specific  
> request, but I can tell you that to date the issue hasn't come up.

I'm confused by this response. Are you indicating each and every member of the WG had to go through this process? That is, that they specifically had to "ask to join the WG" in a message to a member of the WG?

I think not....?

In any case, I don't see anything in the charter about "asking" to join. Can you please quote me the section in the charter that requires perspective new members to "ask" to join?

In fact, reading the charter, it appears quite the opposite of what you are saying here. The charter clearly states that new members may only be made upon motion of a current member. I see nothing about "asking to join".

Hey, I have an idea here that will fix the WG oversight regarding these two authors..... why don't \*you\* make a motion to the WG that Roger and Frank be nominated for membership? Then if they decline to

accept this nomination, this issue is closed. IMHO, it seems to me the section of the charter that talks about membership is intended to allow members of the WG to nominate new members that they feel can make a positive contribution. Clearly, both of these people have made positive contributions to APRS and would broaden the experience base of the WG. Does the WG disagree with this?

Irregardless of if or if not either of them "asked to join", I think it would be in the WG's best interest, and ultimately APRS, to have European representation as well as "open development" mindset type folks on the WG. This is very important now that the WG is moving past documenting the present protocols, and will hopefully start looking at extensions to APRS as well as the "Big picture" as Bob outlined in an earlier message.

Regards,

Jeff

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 6 23:26:15 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA21749  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sun, 6 Feb 2000 23:26:14 -0600 (CST)  
Message-Id: <LYR11589-64821-2000.02.06-23.23.24--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 6 Feb 2000 22:25:48 -0700  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Jim Wagner <[wagnerj@proaxis.com](mailto:wagnerj@proaxis.com)>  
Subject: [aprsspec] Telemetry "support" packets  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <103130301b4c406ad1927@[198.106.196.104]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hello, again...

I am really curious why the ".PARM" and other telemetry support packets were made so pointedly "non-APRS"?

Clearly, the capability of one station to beacon "for" the actual telemetry sender is useful. But it would seem that a better format, say, akin to message addressing, would allow standard APRS network filtering to be applied.

Thanks,

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 7 07:33:51 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA21684  
for <lyris.aprsspec@tapr.org>; Mon, 7 Feb 2000 07:33:49 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Mon, 7 Feb 2000 08:32:52 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Telemetry "support" packets  
In-Reply-To: <LYR11586-64821-2000.02.06-23.23.24--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-64868-2000.02.07-07.30.58--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10002070831160.5573-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

On Sun, 6 Feb 2000, Jim Wagner wrote:

> I am really curious why the ".PARM" and other telemetry support packets  
> were made so pointedly "non-APRS"?  
>  
> Clearly, the capability of one station to beacon "for" the actual telemetry  
> sender is useful. But it would seem that a better format, say, akin to  
> message addressing, would allow standard APRS network filtering to be  
> applied.

What is non-APRS about an APRS message? The telemetry formats and  
equations (usually transmitted after the fact) are in "standard" APRS  
message format.

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 8 01:11:36 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA04470  
for <lyris.aprsspec@tapr.org>; Tue, 8 Feb 2000 01:11:35 -0600 (CST)  
Message-ID: <LYR11589-64993-2000.02.08-01.08.44--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Mon, 7 Feb 2000 23:11:01 -0800 (PST)  
From: James Wagner <ka7ehk@yahoo.com>  
Subject: [aprsspec] Re: Telemetry "support" packets  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <20000208071101.21574.qmail@web906.mail.yahoo.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

>  
> On Sun, 6 Feb 2000, Jim Wagner wrote:  
>  
> > I am really curious why the ".PARM" and other telemetry support  
> packets  
> > were made so pointedly "non-APRS"?  
> >  
> > Clearly, the capability of one station to beacon "for" the actual  
> telemetry  
> > sender is useful. But it would seem that a better format, say, akin  
> to  
> > message addressing, would allow standard APRS network filtering to  
> be  
> > applied.  
>  
> What is non-APRS about an APRS message? The telemetry formats and  
> equations (usually transmitted after the fact) are in "standard" APRS  
> message format.

>  
Just take a look at the bottom of page 54. It says:

Note: These beacons are not APRS Bulletins ó they are ordinary UI  
beacon  
text frames, and do not have any APRS Data Type Identifier.

-----  
Do You Yahoo!?  
Talk to your friends online with Yahoo! Messenger.  
<http://im.yahoo.com>

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 8 07:42:35 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA22045  
for <lyris.aprsspec@tapr.org>; Tue, 8 Feb 2000 07:42:31 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 8 Feb 2000 08:42:04 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>  
Subject: [aprsspec] TELEMETRY Parameters  
In-Reply-To: <LYR11586-63347-2000.01.29-19.56.57--  
bruninga@nadn.navy.mil@lists.tapr.org>  
Message-ID: <LYR11589-65015-2000.02.08-07.39.44--



lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <Pine.GS0.4.05L.10002080838570.20772-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Jim Wagner correctly pointed out that the spec has the TELEMETRY  
PARM,UNITS,EQNS, etc packets wrong. The SPEC implies they are unfomratted  
AS.25 "BEACONS", when in fact, they are standard APRS MESSAGE FORMAT.  
Thus they look like any other APRS message.

Ian, we will need to fix this in the spec...

bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 13 09:15:01 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA07346  
for <lyris.aprsspec@tapr.org>; Sun, 13 Feb 2000 09:14:59 -0600 (CST)  
Message-ID: <LYR11589-65748-2000.02.13-09.12.29--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 13 Feb 2000 15:13:34 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <Ian.Wade@care4free.net>  
Subject: [aprsspec] TEST ONLY: New ISP account  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <64A0tLAeosp4IwMj@care4free.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Hellooooooooooooooooooooooooooooooooooooo

--

Ian Wade

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 17 10:51:16 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA21554  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Thu, 17 Feb 2000 10:51:15 -0600 (CST)  
Date: Thu, 17 Feb 2000 11:51:01 -0500  
From: Jonathan Bradshaw <[jonathan@NrgUp.Net](mailto:jonathan@NrgUp.Net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] MIC-E decoding in java  
Message-ID: <LYR11589-66403-2000.02.17-10.48.58--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
Sender: bounce-aprsspec-11589@lists.tapr.org  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000217115101.A31645@NrgUp.Net>  
Precedence: bulk

I'm working on java code to decode a MIC-E packet. First, if someone has done this already I'd love to see it!

Second, I'd like to know about quirks that I should be aware of. It seems there may be some early MIC-E units that do things a little differently? I've read the APRS draft 1.0.1 many times to create this code but I'm just not completely sure what I'm missing.

Here is what I have so far. Constructive comments would be welcome.

file: MIC\_E.java

```
/*  
    MIC-E class takes a valid binary MIC-E AX.25 packet and decodes the  
    payload.  
*/
```

```

import java.util.*;
import java.text.*;

public final class MIC_E {
    private final static String[] MESSAGETEXT = {
        "M0/Off Duty", "M1/En Route", "M2/In Service",
        "M3/Returning", "M4/Committed", "M5/Special",
        "M6/PRIORITY", "M7/EMERGENCY",
        "C0/Custom-0", "C1/Custom-1", "C2/Custom-2",
        "C3/Custom-3", "C4/Custom-4", "C5/Custom-5",
        "C6/Custom-6", "C7/EMERGENCY" };
    private static SimpleDateFormat UTC;

    static {
        // Set zulu time zone used in converted packets
        UTC = new SimpleDateFormat("ddHHmm");
        UTC.setTimeZone(TimeZone.getTimeZone("UTC"));
    }

    public static String decodePosition(String dest, String content,
                                       long timestamp) {
        int speed, course, message, longoffset;
        char northsouth, westeast;
        double latitude, longitude, altitude;

        byte[] bytedest = dest.getBytes();
        byte[] bytecontent = content.getBytes();

        message    = ((bytedest[0] & 64) == 0 ? 4 : 0)
            + ((bytedest[1] & 64) == 0 ? 2 : 0)
            + ((bytedest[2] & 64) == 0 ? 1 : 0);
        message    += ((bytedest[0] & 16) == 0 ? 7 : 0);
        northsouth = ((bytedest[3] & 64) == 0 ? 'S' : 'N');
        longoffset  = ((bytedest[4] & 64) == 0 ? 0 : 100);
        westeast    = ((bytedest[5] & 64) == 0 ? 'E' : 'W');
        latitude    = ((bytedest[0] & 15) * 1000)
            + ((bytedest[1] & 15) * 100)
            + ((bytedest[2] & 15) * 10)
            + (bytedest[3] & 15)
            + ((bytedest[4] & 15) * 0.10)
            + ((bytedest[5] & 15) * 0.01);
        longitude   = (bytecontent[1] - 28) + longoffset;
        if (longitude >= 180 && longitude <= 189)
            longitude -= 80;
        else if (longitude >= 190 && longitude <= 199)
            longitude -= 190;
        longitude *= 100;
        longitude += (bytecontent[2] - 28 >= 60 ? bytecontent[2] - 88

```

```

        : bytecontent[2]-28);
longitude += (bytecontent[3] - 28) * 0.01;
speed = ((bytecontent[4] - 28) * 10) + ((bytecontent[5] - 28) / 10);
if (speed >= 800) speed -= 800;
course = (((bytecontent[5] - 28) % 10) * 100) + (bytecontent[6] - 28);
if (course >= 400) course -= 400;
if (bytecontent.length >= 11 && bytecontent[13] == '{') {
    altitude = (((bytecontent[10] - 33) * 8281)
        + ((bytecontent[11] - 33) * 91)
        + (bytecontent[12] - 33)) - 10000) * 3.280;
} else altitude = -1;

// Return the decoded packet content
return "@" + UTC.format(new Date(timestamp))
    + "z" + format("0000.00", latitude) + northsouth
    + content.charAt(8) + format("00000.00", longitude) + westeast
    + content.charAt(7) + format("000", course) + "/"
    + format("000", speed) + "/Mic-E/" + MESSAGETEXT[message]
    + (altitude >= 0 ? " /A=" + format("000000", altitude) : "");
}

public static String decodeText(String content) {
    String text = "";
    byte[] bytecontent = content.getBytes();

    if (content.length() <= 10) return "";

    switch (bytecontent[9]) {
        case '>' : // Kenwood TH-D7
        case ']' : // Kenwood TM-D700
            if (content.length() > 13 && content.charAt(13) != '{') {
                text = ">" + content.substring(10);
            } else if (content.length() > 14) {
                text = ">" + content.substring(14);
            }
            break;
        case '`' : // Two channel hex telemetry
            try {
                text = "T#MIC" +
                    format("000", Integer.parseInt(content.substring(10,12), 16)) + "," +
                    format("000", Integer.parseInt(content.substring(12,14), 16));
            } catch (NumberFormatException err) { }
            break;
        case '\\': // Five channel hex telemetry
            try {
                text = "T#MIC" +
                    format("000", Integer.parseInt(content.substring(10,12), 16)) + "," +
                    format("000", Integer.parseInt(content.substring(12,14), 16)) + "," +

```

```

        format("000", Integer.parseInt(content.substring(14,16), 16)) + "," +
        format("000", Integer.parseInt(content.substring(16,18), 16)) + "," +
        format("000", Integer.parseInt(content.substring(18,20), 16));
    } catch (NumberFormatException err) { }
        break;
    case 0x1d: // Five channel binary telemetry
        text = "T#MIC" +
            format("000", bytecontent[10]) + "," +
            format("000", bytecontent[11]) + "," +
            format("000", bytecontent[12]) + "," +
            format("000", bytecontent[13]) + "," +
            format("000", bytecontent[14]);
        break;
    default: text = content.substring(9);
        break;
    }
    return text.trim();
}

// Format number into string
private static String format(String pattern, double value ) {
    DecimalFormat myFormatter = new DecimalFormat(pattern);
    return myFormatter.format(value);
}
}

```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Feb 19 08:56:22 2000  
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA16225  
 for <lyris.aprsspec@tapr.org>; Sat, 19 Feb 2000 08:56:16 -0600 (CST)  
 Mime-Version: 1.0  
 Message-Id: <LYR11589-66652-2000.02.19-08.53.50--  
 lyris.aprsspec#tapr.org@lists.tapr.org>  
 Date: Sat, 19 Feb 2000 09:51:45 -0500  
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
 From: Keith Sproul <ksproul@vger.rutgers.edu>  
 Subject: [aprsspec] Re: [aprssig] Telemetry Format....  
 Cc: aprsspec@lists.tapr.org  
 Content-Type: text/plain; charset="us-ascii" ; format="flowed"  
 List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
 List-Software: Lyris Server version 3.0  
 List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <v04205510b4d45de97f63@[165.230.133.70]>  
<LYR2595-66647-2000.02.19-08.21.39--KSPROUL#VGER.RUTGERS.EDU@lists.tappr.org>  
<LYR2595-66647-2000.02.19-08.21.39--KSPROUL#VGER.RUTGERS.EDU@lists.tappr.org>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

This is VERY interesting, I am glad you are doing this..

I would be more than happy to work with you on this.. Also, this discussion should probably be moved to the APRSSPEC list.. I am copying that list with this reply.

Keith Sproul

>The APRS specification gives a definition for Telemetry Data,  
>but limits it to 8 bits.  
>I'm building a system that uses a pair of the nifty new Linear Tech LTC2400  
>8 pin 24 bit ratio metric A/D's to measure some precision pressure sensors.  
>  
>I know I can just create my own experimental packets with whatever  
>Data I want in them, but I would prefer to propose a "standard" way  
>of encoding extended precision telemetry.  
>  
>Paul (K17JG)  
>  
>  
>  
>  
>  
>---  
>You are currently subscribed to aprssig as: KSPROUL@VGER.RUTGERS.EDU  
>To unsubscribe send a blank email to leave-aprssig-25950@lists.tappr.org

|                                     |                     |
|-------------------------------------|---------------------|
| Keith Sproul                        | 732 445-3695 Office |
| Student Housing Network Coordinator | 732 445-2968 Fax    |
| mailto:ksproul@rci.rutgers.edu      | 732 821-4828 Home   |
| http://dorm.rutgers.edu/~ksproul/   | WU2Z                |

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Feb 19 09:31:29 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17423  
for <lyris.aprsspec@tappr.org>; Sat, 19 Feb 2000 09:31:28 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Sat, 19 Feb 2000 10:29:37 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>  
Subject: [aprsspec] Re: [aprssig] Telemetry Format....  
In-Reply-To: <LYR11586-66652-2000.02.19-08.53.50--  
bruninga@nadn.navy.mil@lists.tappr.org>  
Message-ID: <LYR11589-66665-2000.02.19-09.28.21--  
lyris.aprsspec@tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GS0.4.05L.10002191022530.3143-1000000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

A good baseline might be to consider the AMSAT formats used. I dont have the data in front of me but it may be extensible beyond 8 bits. IT can certainly handle up to 255 channels. And even if it is only 8 bit, then all it takes to do up to 16 bits is just define two adjacent channels for the LSB and MSB. The format was just XX YY .... repeated over and over where XX is the channel number and YY is the value in HEX with space delimiters. The value of this is that not every value has to be present in every packet. Some values can be repeated much more often and slowly chanigng values less often... And the packet can be any length.

Disadvantage is that you have 50% overhead by specifying the channel number all the time.

Or, I think the 9600 baud birds use a format of straight binary, with the number of bytes to follow and then a stream of contiguous channels. This is more compact if you are sending every channel every time, but if you dont need all the channels all the time, then this too has inneffeicencies...

just some thoughts.  
bob

not looked in years. On Sat, 19 Feb 2000, Keith Sproul wrote:

```
> This is VERY interesting, I am glad you are doing this..
>
> I would be more than happy to work with you on this.. Also, this
> discussion should probably be moved to the APRSSPEC list.. I am
> copying that list with this reply.
>
> Keith Sproul
>
>
> >The APRS specification gives a definition for Telemetry Data,
> >but limits it to 8 bits.
> >I'm building a system that uses a pair of the nifty new Linear Tech LTC2400
> >8 pin 24 bit ratio metric A/D's to measure some precision pressure sensors.
> >
> >I know I can just create my own experimental packets with whatever
> >Data I want in them, but I would prefer to propose a "standard" way
> >of encoding extended precision telemetry.
> >
> >Paul (K17JG)
> >
> >
> >
> >
> >
> >---
> >You are currently subscribed to aprssig as: KSPROUL@VGER.RUTGERS.EDU
> >To unsubscribe send a blank email to leave-aprssi-25950@lists.tappr.org
>
> Keith Sproul                732 445-3695 Office
> Student Housing Network Coordinator 732 445-2968 Fax
> mailto:ksproul@rci.rutgers.edu    732 821-4828 Home
> http://dorm.rutgers.edu/~ksproul/  WU2Z
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprssi-11589P@lists.tappr.org
>
>
```

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org  
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060  
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>



See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>  
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Sat Feb 19 18:36:15 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA05862  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Sat, 19 Feb 2000 18:36:12 -0600 (CST)  
Date: Sat, 19 Feb 2000 19:34:14 -0500  
From: Jonathan Bradshaw <[jonathan@mail.nrgup.net](mailto:jonathan@mail.nrgup.net)>  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
Subject: [aprsspec] MIC-E followup  
Message-ID: <LYR11589-66752-2000.02.19-18.33.47--  
[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>  
Mime-Version: 1.0  
Content-Type: multipart/mixed; boundary="pf9I7BMVVzbSWLtt"  
User-Agent: Mutt/1.0.1i  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <20000219193414.A25362@NrgUp.Net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

--pf9I7BMVVzbSWLtt  
Content-Type: text/plain; charset=us-ascii

I got a couple of pointers for the MIC-E question I posed. Looks like WA4DSY has tackled this problem and his code provided some information that may need to go into the documentation.

The code is fairly complex and I'm not certain I read his code correctly but it seems that REV 0 (beta) units provide the following differences:

- o Longitude does not use the +100 offset bit
- o Longitude does not subtract 80 when between 180 and 189
- o Longitude does not subtract 190 when between 190 and 199
- o Speed value does not subtract 800 if > 800
- o Course value does not 400 when > 400
- o No table indicator (defaults to /)

o Symbol may be non-printable (if so its given as \$)

Can anyone confirm or deny this information?

I'm going to attach the newer version of the java class file in case anyone wishes to play with it.

--

Jonathan Bradshaw <Jonathan@NrgUp.Net> | Call N90XE | ICQ# 41208820 | Linux  
If you need to point-and-click to administer a machine, you have no business  
administering a machine -- (Author unknown)

--pf9I7BMVVzbSWLtt

Content-Type: text/x-java

Content-Disposition: attachment; filename="MIC\_E.java"

```
import java.util.*;
```

```
import java.text.*;
```

```
/**
```

```
 * MIC-E class takes a valid binary MIC-E AX.25 packet and decodes the  
 * payload into a TNC-2 type AX.25 packet.
```

```
 *
```

```
 * This data format was provided by the APRS Working Group 1.0.1 document  
 * and combined with information from WA4DSY's mic_e.c code.
```

```
 *
```

```
 * @author Jonathan Bradshaw
```

```
*/
```

```
public final class MIC_E {
```

```
    private final static String[] MESSAGETEXT = {  
        "M0/Off Duty", "M1/En Route", "M2/In Service",  
        "M3/Returning", "M4/Committed", "M5/Special",  
        "M6/PRIORITY", "M7/EMERGENCY",  
        "C0/Custom-0", "C1/Custom-1", "C2/Custom-2",  
        "C3/Custom-3", "C4/Custom-4", "C5/Custom-5",  
        "C6/Custom-6", "C7/EMERGENCY" };
```

```
    private static SimpleDateFormat UTC;
```

```
    static {
```

```
        // Set zulu time zone used in converted packets
```

```
        UTC = new SimpleDateFormat("ddHHmm");
```

```
        UTC.setTimeZone(TimeZone.getTimeZone("UTC"));
```

```
    }
```

```
    /** Decode the position string from a MIC-E packet into
```

```
     * an standard APRS position format.
```

```
     *
```

```

* @param dest      The AX.25 destination call sign
* @param content    The AX.25 packet content
* @param timestamp  Timestamp used in the new position string
*/
public static String decodePosition(String dest, String content,
                                   long timestamp) {
    int rev, speed, course, message, longoffset;
    char northsouth, westeast, symbolcode, symboltable;
    double latitude, longitude, altitude;

    byte[] bytedest = dest.getBytes();
    byte[] bytecontent = content.getBytes();

    // Determine if this is a rev 0 (beta) or rev 1 unit
    switch (bytecontent[0]) {
        case 0x1c:
        case 0x1d: rev = 0;
        default : rev = 1;
    }

    message = (((bytedest[0] & 64) == 0 ? 4 : 0)
               + (((bytedest[1] & 64) == 0 ? 2 : 0)
                  + (((bytedest[2] & 64) == 0 ? 1 : 0));
    message += (((bytedest[0] & 16) == 0 ? 7 : 0);
    northsouth = (((bytedest[3] & 64) == 0 ? 'S' : 'N');
    longoffset = (((bytedest[4] & 64) == 0 ? 0 : 100);
    westeast = (((bytedest[5] & 64) == 0 ? 'E' : 'W');
    latitude = (((bytedest[0] & 15) * 1000)
                + (((bytedest[1] & 15) * 100)
                   + (((bytedest[2] & 15) * 10)
                      + (bytedest[3] & 15)
                        + (((bytedest[4] & 15) * 0.10)
                           + ((bytedest[5] & 15) * 0.01));
    longitude = (bytecontent[1] - 28);
    if (rev > 0) { // per WA4DSY code this was not used in beta units
        longitude += longoffset;
        if (longitude >= 180 && longitude <= 189) longitude -= 80;
        else if (longitude >= 190 && longitude <= 199) longitude -= 190;
    }
    longitude *= 100;
    longitude += (((bytecontent[2] - 28 >= 60 ? bytecontent[2]-88
                                                         : bytecontent[2]-28))
                 + (((bytecontent[3] - 28) * 0.01));
    speed = (((bytecontent[4] - 28) * 10) + (((bytecontent[5] - 28) / 10);
    course = (((bytecontent[5] - 28) % 10) * 100) + (bytecontent[6] - 28);
    if (rev > 0 && speed >= 800) speed -= 800; // per WA4DSY code not
    if (rev > 0 && course >= 400) course -= 400; // used in beta units

```

```

    if (bytecontent.length > 13 && bytecontent[13] == '{') {
        // Altitude needs to be converted from meters to feet
        altitude = (((bytecontent[10] - 33) * 8281)
            + ((bytecontent[11] - 33) * 91)
            + (bytecontent[12] - 33)) - 10000) * 3.280;
    } else altitude = -1;

    // Translation of WA4DSY code to deal with symbols and symbol tables
    symboltable = (rev > 0 && bytecontent.length > 8) ?
        (char) bytecontent[8] : '/';
    if (symboltable != '/' && symboltable != '\\')
        && !('0' <= symboltable && symboltable <= '9')
        && !('A' <= symboltable && symboltable <= 'J')
        && symboltable != '*' && symboltable != '!') symboltable = '/';
    symbolcode = (bytecontent.length > 7) ? (char) bytecontent[7] : '$';
    if (symbolcode < 32 || symbolcode > 125) symbolcode = '$';

    // Return the decoded packet content
    return "@" + UTC.format(new Date(timestamp))
        + "z" + format("0000.00", latitude) + northsouth
        + symboltable + format("00000.00", longitude) + westeast
        + symbolcode + format("000", course) + "/"
        + format("000", speed) + "/Mic-E/" + MESSAGETEXT[message]
        + (altitude >= 0 ? " /A=" + format("000000", altitude) : "");
}

/** Decode the remaining text string from a MIC-E packet
 *
 * @param content The AX.25 packet content
 */
public static String decodeText(String content) {
    String text = "";
    int start;
    byte[] bytecontent = content.getBytes();

    if (bytecontent.length < 10) return "";

    // Determine if this is a rev 0 (beta) or rev 1 unit
    switch (bytecontent[0]) {
        case 0x1c:
        case 0x1d: start = 8;
        default : start = 9;
    }

    switch (bytecontent[start]) {
        case '>' : // Kenwood TH-D7
        case ']' : // Kenwood TM-D700
            if (content.length() > start+4 &&

```

```

        content.charAt(start+4) != '}') {
            text = ">" + content.substring(start+1);
        } else if (content.length() > start+5) {
            text = ">" + content.substring(start+5);
        }
        break;
    case '`' : // Two channel hex telemetry
        try {
            text = "T#MIC" +
                format("000", Integer.parseInt(
                    content.substring(start+1,start+3), 16)) + "," +
                format("000", Integer.parseInt(
                    content.substring(start+3,start+5), 16));
        } catch (NumberFormatException err) { }
        break;
    case '\\': // Five channel hex telemetry
        try {
            text = "T#MIC" +
                format("000", Integer.parseInt(
                    content.substring(start+1,start+3), 16)) + "," +
                format("000", Integer.parseInt(
                    content.substring(start+3,start+5), 16)) + "," +
                format("000", Integer.parseInt(
                    content.substring(start+5,start+7), 16)) + "," +
                format("000", Integer.parseInt(
                    content.substring(start+7,start+9), 16)) + "," +
                format("000", Integer.parseInt(
                    content.substring(start+9,start+11), 16));
        } catch (NumberFormatException err) { }
        break;
    case 0x1d: // Five channel binary telemetry
        text = "T#MIC" +
            format("000", bytecontent[start+1]) + "," +
            format("000", bytecontent[start+2]) + "," +
            format("000", bytecontent[start+3]) + "," +
            format("000", bytecontent[start+4]) + "," +
            format("000", bytecontent[start+5]);
        break;
    default: text = content.substring(start);
            break;
    }
    return text.trim();
}

// Format number into string
private static String format(String pattern, double value ) {
    DecimalFormat myFormatter = new DecimalFormat(pattern);
    return myFormatter.format(value);
}

```

}

}

/\*

K1ATV-9>S32UVT,RELAY,WIDE\*:`(\_fl"0j/'7200007100Mon-146.84 Earl ATV  
K1ATV-9>APRS,RELAY,WIDE\*:@091929z3325.63N/11207.73Wj251/000/Mic-E/M3/Returning  
\*/

--pf9I7BMVVzbSWLtt--

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 20 00:56:08 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA23883  
for <lyris.aprsspec@tapr.org>; Sun, 20 Feb 2000 00:56:04 -0600 (CST)  
Message-ID: <LYR11589-66846-2000.02.20-00.53.47--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Date: Sun, 20 Feb 2000 06:47:42 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <Ian.Wade@care4free.net>  
Reply-To: ianwade@netro.co.uk  
Subject: [aprsspec] Re: MIC-E followup  
References: <LYR14779-66752-2000.02.19-18.33.47--  
Ian.Wade#care4free.net@lists.tapr.org>  
In-Reply-To: <LYR14779-66752-2000.02.19-18.33.47--  
Ian.Wade#care4free.net@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <ulmxtLA044r4EwG0@care4free.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

In article <LYR14779-66752-2000.02.19-18.33.47--Ian.Wade#care4free.net@lists.tapr.org>, Jonathan Bradshaw <jonathan@mail.nrgup.net> writes

> Looks like WA4DSY  
> has tackled this problem and his code provided some information that may need  
> to go into the documentation.

>  
>The code is fairly complex and I'm not certain I read his code correctly but  
>it seems that REV 0 (beta) units provide the following differences:  
>

[snip]

Jonathan, could you provide us with a pointer to DSY's code?

Thanks

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 20 01:00:53 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA24043  
for <lyris.aprsspec@tapr.org>; Sun, 20 Feb 2000 01:00:52 -0600 (CST)  
Message-Id: <LYR11589-66847-2000.02.20-00.58.40--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 20 Feb 2000 00:00:32 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Re: [aprssig] Telemetry Format  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <103130300b4d53c7f70d6@[198.106.196.149]>  
<LYR11893-66837-2000.02.20-00.00.18--wagnerj@proaxis.com@lists.tapr.org>  
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

The telemetry values, as I read the spec, are ASCII numeric characters.

There is no rational reason to limit the value to 255. A value of 999 takes no more ASCII characters than the value 255 does. This does NOT solve the problem of values with more than 9 1/2 bits (well, a little more since 10 bits is equivalent to value 1023).

Base91 could easily extend this to 753570 (which will accomodate 19 bits and some - B7FA2 hex - if I understand Base91)

This does not quite solve the 24-bit A/D question posed by Paul (K17JG). Perhaps two fields would handle that without any protocol changes (using Base91).

Jim, KA7EHK

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 08:05:47 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA12486  
for <lyris.aprsspec@tapr.org>; Mon, 21 Feb 2000 08:05:46 -0600 (CST)  
Date: Mon, 21 Feb 2000 09:04:17 -0500  
From: Jonathan Bradshaw <jonathan@nrgup.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: g3nrw@arrl.net  
Subject: [aprsspec] Re: aprsspec digest: February 20, 2000  
Message-ID: <LYR11589-67032-2000.02.21-08.03.40--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
References: <LYR14840-67000-2000.02.21-00.00.21--  
jonathan#nrgup.net@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
User-Agent: Mutt/1.0.1i  
In-Reply-To: <LYR14840-67000-2000.02.21-00.00.21--  
jonathan#nrgup.net@lists.tapr.org>; from aprsspec@lists.tapr.org on Mon, Feb 21,  
2000 at 12:00:21AM -0600  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>



List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <20000221090416.A3239@NrgUp.Net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Upon re-checking I have found it was Alan Crosswell, N2YGK who wrote the original mic\_e.c decode software (my apologies).

It is available as the file "mic\_e.c" inside aprsdigi from:

<ftp://ftp.tapr.org/aprssidig/linux/aprssidigi-2.0-pre3.tgz>

WA4DSY modified it to compile cleanly under g++ and that is available as the file "mic\_e.cpp" from:

<ftp://ftp.tapr.org/aprssidig/linux/aprstd210.tar.gz>

Finally, I have rewritten it to run under Java, added altitude support and am trying to figure out how ambiguity is encoded and that will be available when done from either tapr or sourceforge. However, I'm in the middle of moving home to England (Weybridge, Surrey) in the next couple of months.

On Mon, Feb 21, 2000 at 12:00:21AM -0600, APRS Spec Discussion List digest wrote:

```
> [snip]
>
> Jonathan, could you provide us with a pointer to DSY's code?
>
> Thanks
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
>
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> |                               email: g3nrw@arrl.net      |
> |                               |                          |
> | APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
> +-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Feb 21 15:54:45 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA29902  
for <lyris.aprsspec@tappr.org>; Mon, 21 Feb 2000 15:54:41 -0600 (CST)  
Date: Mon, 21 Feb 2000 16:53:05 -0500  
From: Jonathan Bradshaw <jonathan@nrgup.net>  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
Cc: aprsspec@lists.tappr.org  
Subject: [aprsspec] Help - Position ambiguity in MIC-E  
Message-ID: <LYR11589-67103-2000.02.21-15.52.34--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset=us-ascii  
User-Agent: Mutt/1.0.1i  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <20000221165305.A3646@NrgUp.Net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I have read the MIC-E protocol up and down a few times but I'm still stuck on the position ambiguity decoding.

For latitude it seems simple enough. You have six 4-bit nibbles which normally could have a value of (in theory) 0-9 but I would assume when position ambiguity is used that nibble has a value > 9. Easy enough to code  
-- when that nibble is > 9 then substitute a space. Am I on the right track?

Now I look at longitude. Its easy enough to compute but position ambiguity doesn't seem to be done the same way so I am at a loss. I want to make sure my Java class can correctly convert a MIC-E packet into a good position report but this bit (ok, bad pun...) has me stuck!

I'd also like to find some test data. The TH-D7 I have doesn't seem to support that feature so I can't use it for testing.

--

Jonathan Bradshaw <Jonathan@NrgUp.Net> | Call N90XE | ICQ# 41208820 | Linux  
If you need to point-and-click to administer a machine, you have no business  
administering a machine -- (Author unknown)

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Feb 21 17:32:01 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03635  
for <lyris.aprsspec@tappr.org>; Mon, 21 Feb 2000 17:32:00 -0600 (CST)  
Message-Id: <LYR11589-67118-2000.02.21-17.29.54--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
X-Sender: rasdpaul@pop.rasdoc.com  
Date: Mon, 21 Feb 2000 18:35:45 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Paul Breed <Paul@rasdoc.com>  
Subject: [aprsspec] Help with packet decoding....  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"; format=flowed  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <4.2.0.58.20000221183231.00a2a520@pop.rasdoc.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

I building a simple KISS TNC based on the Atmel AVR.

I'm having problems with the packet decoding.

I can decode the destination address in the AX25 frame  
I can decode the source address  
I can decode the path WIDE, Relay etc....(The example below has no path)  
By changing single chars in the message I can change single chars in the  
decoded packet below.

Then when I get to the Data portion it is all garbage.  
It looks like the data is subject to a data scrambling pattern.  
(Common is lots of communications for 1 to 0 balance)  
If it is I can not find it in either the AX.25 or APRS specifications.  
What am I missing?

Sample packet:  
Sending to KL7JG-6 from KL7JG-7 ( a THD7A)  
Message TEST?ISIT.WORKING

The captured packet in HEX:

<FLAG>

41 50 4B 30 30 31 30 4B 4C 37 4A 47                   =(APK0010L7JG)  
A0 F7 01 78 9D 25 A6 1B A5 A3 16 1B 10 10  
1D AD A2 29 AA 9F A4 A9 24 2A 97 AB 27 A9  
A5 24 A7 A3 3D 99 86 1F 12 <FLAG>

Any Ideas?

What am I missing?

I've tried thing assuming I was off by one bit.... I get tantalizingly close  
but nothing works.

Paul (K17JG)

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 17:55:07 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04409  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Mon, 21 Feb 2000 17:55:05 -0600 (CST)  
Message-Id: <LYR11589-67123-2000.02.21-17.52.57--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
X-Sender: dvanhorn@204.95.210.1  
Date: Mon, 21 Feb 2000 18:52:18 -0500  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Dave VanHorn <[dvanhorn@cedar.net](mailto:dvanhorn@cedar.net)>  
Subject: [aprsspec] Re: Help with packet decoding....  
In-Reply-To: <LYR11608-67118-2000.02.21-17.29.54--[dvanhorn#cedar.net@lists.tapr.org](mailto:dvanhorn#cedar.net@lists.tapr.org)>  
Mime-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <4.2.2.20000221184631.00a2d220@204.95.210.1>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>  
>  
>Then when I get to the Data portion it is all garbage.  
>It looks like the data is subject to a data scrambling pattern.  
>(Common is lots of communications for 1 to 0 balance)  
>If it is I can not find it in either the AX.25 or APRS specifications.  
>What am I missing?

Do you handle the bit stuffing yet? <http://www.tapr.org/tapr/html/Fax25.html>

"In order to assure that the flag bit sequence mentioned above doesn't appear accidentally anywhere else in a frame, the sending station shall monitor the bit sequence for a group of five or more contiguous one bits. Any time five contiguous one bits are sent the sending station shall insert a zero bit after the first one bit. During frame reception, any time five contiguous one bits are received, a zero bit immediately following five one bits shall be discarded. "

-----BEGIN PGP SIGNATURE-----

Version: PGP for Personal Privacy 5.5.2

iQA/AwUBOLHPsYF1GDz1l6VWEQKpbACg0wk8Rrh4hY3W8woThRqtnX4ndsAAoPMU  
gNRq1UwrfnA91UFJwW6unMWs  
=6wpF

-----END PGP SIGNATURE-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 18:04:11 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA04782  
for <lyris.aprsspec@tapr.org>; Mon, 21 Feb 2000 18:04:09 -0600 (CST)  
Date: Mon, 21 Feb 2000 18:04:01 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-67129-2000.02.21-18.02.06--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Help with packet decoding....  
In-Reply-To: <LYR11595-67118-2000.02.21-17.29.54--

salo#networkcs.com@lists.tappr.org>  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>  
X-Message-Id: <200002220004.SAA50536@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

> Date: Mon, 21 Feb 2000 18:35:45 -0500  
> From: Paul Breed <[Paul@rasdoc.com](mailto:Paul@rasdoc.com)>  
> Subject: [aprsspec] Help with packet decoding....

>

> The captured packet in HEX:

> <FLAG>

> 41 50 4B 30 30 31 30 4B 4C 37 4A 47                    =(APK0010L7JG)  
                                                      ^^  
                                                      ^^

> A0 F7 01 78 9D 25 A6 1B A5 A3 16 1B 10 10  
  ^^  
  ^^

> 1D AD A2 29 AA 9F A4 A9 24 2A 97 AB 27 A9  
> A5 24 A7 A3 3D 99 86 1F 12 <FLAG>

Note this two-byte sequence: 47                    A0  
which is, in binary               : 0100 0111 1100 0000  
note five contiguous 1's         :                ^^^^^^  
so, delete this bit               :                    ^  
and continue decoding.

This extra bit was presumably inserted on transmission; it should be removed on reception.

See paragraph 2.2.6, Bit Stuffing, in the AX.25 2.0 spec  
(<http://www.tappr.org/tapr/html/Fax25.html>), which says:

"In order to assure that the flag bit sequence mentioned above doesn't appear accidentally anywhere else in a frame, the sending station shall monitor the bit sequence for a group of five or more contiguous one bits. Any time five contiguous one bits are sent the sending station shall insert a zero bit after the first one bit. During frame reception, any time five contiguous one bits are received, a zero bit immediately following five one bits shall be discarded."

(Note that the second sentence should read: "shall insert a zero bit after the fifth one bit.")

-tjs  
-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 20:34:05 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA11083  
for <lyris.aprsspec@tapr.org>; Mon, 21 Feb 2000 20:34:04 -0600 (CST)  
Date: Mon, 21 Feb 2000 20:33:51 -0600 (CST)  
From: Tim Salo <salo@networkcs.com>  
Message-Id: <LYR11589-67156-2000.02.21-20.32.00--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: Help with packet decoding....  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <200002220233.UAA52692@us.networkcs.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

[bogus first line to fool lyris...]

> Date: Mon, 21 Feb 2000 18:35:45 -0500  
> From: Paul Breed <Paul@rasdoc.com>  
> Subject: [aprsspec] Help with packet decoding....  
>  
> The captured packet in HEX:  
> <FLAG>  
> 41 50 4B 30 30 31 30 4B 4C 37 4A 47                   =(APK0010L7JG)  
> A0 F7 01 78 9D 25 A6 1B A5 A3 16 1B 10 10  
> 1D AD A2 29 AA 9F A4 A9 24 2A 97 AB 27 A9  
> A5 24 A7 A3 3D 99 86 1F 12 <FLAG>

Ok, I was wrong last time.

First, it appears that the characters in the AX.25 call signs are not appropriately shifted left one bit. So, looking at the first 12 bytes, I get (manually, so there are probably some mistakes):

| Was          | Should be    |
|--------------|--------------|
| 41 0100 0001 | 82 A To Call |

|    |           |    |                       |
|----|-----------|----|-----------------------|
| 50 | 0101 0000 | A0 | P                     |
| 4B | 0100 1011 | 96 | K                     |
| 30 | 0011 0000 | 60 | 0                     |
| 30 | 0011 0000 | 60 | 0                     |
| 31 | 0011 0001 | 62 | 1                     |
| 30 | 0011 0000 | 60 | reserved bits, ssid=0 |
|    |           |    |                       |
| 4B | 0100 1011 | 96 | K From Call           |
| 4C | 0100 1100 | 98 | L                     |
| 37 | 0011 0111 | 6E | 7                     |
| 4A | 0100 1010 | 94 | A                     |
| 47 | 0100 0111 | 8E | G                     |

After that the pattern isn't so clear...

-tjs

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 22:17:22 2000  
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
   by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA14612  
   for <lyris.aprsspec@tapr.org>; Mon, 21 Feb 2000 22:17:20 -0600 (CST)  
 Message-Id: <LYR11589-67172-2000.02.21-22.14.58--  
 lyris.aprsspec#tapr.org@lists.tapr.org>  
 X-Sender: rasdpaul@pop.rasdoc.com  
 Date: Mon, 21 Feb 2000 23:20:18 -0500  
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
 From: Paul Breed <Paul@rasdoc.com>  
 Subject: [aprsspec] PACet Problem solved(long) Thank to all....  
 Mime-Version: 1.0  
 Content-Type: text/plain; charset="us-ascii"; format=flowed  
 List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
 List-Software: Lyris Server version 3.0  
 List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
 List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
 X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
 X-Message-Id: <4.2.0.58.20000221225620.00c58850@pop.rasdoc.com>  
 Sender: bounce-aprsspec-11589@lists.tapr.org  
 Precedence: bulk

My bit stuffing was/is fine.

My problem was in the part that seemed to be working.

I was decoding the Address field fine, but the data field was scrambled.



So I did not look in the specification for the Address field.

AX.25 section 3.12 says all the Address fields are encoded shifted one bit high.

Since I got the address field to decode correctly I did not look there for my problem.

I was off by one bit from the beginning of the packet.

I missed the 0 that always seems to follow the flag bit.

I was detecting that as the end of the flag, not the start of the next char.

Thus my address decoded fine, but I was off by one when I got to the data.

Who would have guessed that

APK0010KL7JG should not be encoded as APL0010KL7JG

I originally discounted off by one bit, because the data did not look like it was shifted. It was harder to find than I thought it would be.....

Assume you have the ASCII text ABCD

Encodes as hex 41 42 43 44

Encodes as binary 01000001 01000010 01000011 01000100

So if you are off by 1, one would expect

|    |          |          |          |          |
|----|----------|----------|----------|----------|
|    | 10000010 | 10000100 | 10000110 | 1000100X |
| 82 | 84       | 86       | 88 or 89 |          |

BUT it is sent on the wire LSB first..... so it actually encodes as

10000010 01000010 11000010 00100010

Then off by one gives

00000100 10000101 10000100 0100010X

And transposed back to human ordered form again

|          |          |          |          |
|----------|----------|----------|----------|
| 00100000 | 10100001 | 00100001 | X0100010 |
| 40       | A1       | 21       | A2 or 22 |

So the pattern 40 A1 21 A2 is only shifted one bit from 41 42 43 44

I used a lot of graph paper to figure this out, then I wrote several simple C programs to read in a set up numbers and spit things out again shifted variable amounts..... My head hurts.

I hope this post was an appropriate use of the group bandwidth.

I always enjoy seeing how people go about solving problems.

One of my pet peeves is when someone solves a problem they asked about on a list and then never tells the group what worked.

If you don't think this was appropriate let me know via private mail.

Paul (K17JG) knee deep in the bits...

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 21 23:00:27 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA16004  
for <lyris.aprsspec@tapr.org>; Mon, 21 Feb 2000 23:00:24 -0600 (CST)  
Message-Id: <LYR11589-67182-2000.02.21-22.58.03--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
X-Sender: dvanhorn@204.95.210.1  
Date: Mon, 21 Feb 2000 23:56:48 -0500  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Dave VanHorn <dvanhorn@cedar.net>  
Subject: [aprsspec] Re: PAcet Problem solved(long) Thank to all....  
In-Reply-To: <LYR11608-67172-2000.02.21-22.14.58--dvanhorn#cedar.net@lis  
ts.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <4.2.2.20000221235556.00a44d00@204.95.210.1>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>

>I used a lot of graph paper to figure this out, then I wrote several  
>simple C programs to read in a set up numbers and spit things out again  
>shifted variable amounts..... My head hurts.

That's how you know it's the right solution :)

Good news!

Did you look at the comm engine I sent you?

-----BEGIN PGP SIGNATURE-----

Version: PGP for Personal Privacy 5.5.2

iQA/AwUBOLIXEIFlGDz1l6VWEQJe3ACg7Gxh8ZFhszT0+5frz9QLE6Fk1ZsAnAs1  
h+eBg0xzCwm9/OMcGnwFzg4s  
=qUak

-----END PGP SIGNATURE-----

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 22 00:06:12 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA25962  
for <lyris.aprsspec@tapr.org>; Tue, 22 Feb 2000 00:06:11 -0600 (CST)  
Message-ID: <LYR11589-67197-2000.02.22-00.03.37--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
Date: Tue, 22 Feb 2000 01:04:51 -0500  
From: "Ev Tupis (W2EV)" <propnet@greeceney.com>  
X-Accept-Language: en  
MIME-Version: 1.0  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] Re: PAcet Problem solved(long) Thank to all....

References: <LYR11610-67172-2000.02.21-22.14.58--  
propnet#greceny.com@lists.tapr.org>  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <38B22703.A2675FB3@greceny.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Wow. What a super thread. Thanks to everyone who participated. I  
learned plenty. Nice overall recap, Paul!

Warmly,  
Ev, W2EV

Paul Breed wrote:

>  
> My bit stuffing was/is fine.  
> My problem was in the part that seemed to be working.  
> I was decoding the Address field fine, but the data field was scrambled.  
>  
> So I did not look in the specification for the Address field.  
> AX.25 section 3.12 says all the Address fields are encoded shifted one  
> bit high.  
> Since I got the address field to decode correctly I did not look there for  
> my problem.  
>  
> I was off by one bit from the beginning of the packet.  
> I missed the 0 that always seems to follow the flag bit.  
> I was detecting that as the end of the flag, not the start of the next char.  
>  
> Thus my address decoded fine, but I was off by one when I got to the data.  
>  
> Who would have guessed that  
> APK0010KL7JG should not be encoded as APL0010KL7JG  
>  
> I originally discounted off by one bit, because the data did not look like  
> it was shifted. It was harder to find than I thought it would be.....  
>  
> Assume you have the ASCII text ABCD  
>  
> Encodes as hex 41 42 43 44  
> Encodes as binary 01000001 01000010 01000011 01000100

```

> So if you are off by 1, one would expect
>
>           10000010 10000100 10000110 1000100X
>           82           84           86           88 or 89
>
> BUT it is sent on the wire LSB first..... so it actually encodes as
>           10000010 01000010 11000010 00100010
> Then off by one gives
>           00000100 10000101 10000100 0100010X
> And transposed back to human ordered form again
>           00100000 10100001 00100001 X0100010
>           40           A1           21           A2 or 22
>
> So the pattern 40 A1 21 A2 is only shifted one bit from 41 42 43 44
>
> I used a lot of graph paper to figure this out, then I wrote several simple
> C programs to read in a set up numbers and spit things out again shifted
> variable amounts..... My head hurts.
>
> I hope this post was an appropriate use of the group bandwidth.
> I always enjoy seeing how people go about solving problems.
> One of my pet peeves is when someone solves a problem they asked about on
> a list and then never tells the group what worked.
>
> If you don't think this was appropriate let me know via private mail.
>
> Paul (K17JG) knee deep in the bits...
>
>
>
> ---
> You are currently subscribed to aprsspec as: propnet@greeceny.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

```

```

--
PropNET: A digital wireless
data network designed to
plot band openings in near
real-time.  Intreagued?
http://go.to/propnet

```

```

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

```

```

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 22 01:12:43 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id BAA27616

```

for <lyris.aprsspec@tapr.org>; Tue, 22 Feb 2000 01:12:39 -0600 (CST)  
Message-Id: <LYR11589-67203-2000.02.22-01.10.24--  
lyris.aprsspec#tapr.org@lists.tapr.org>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Tue, 22 Feb 2000 00:12:00 -0700  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Jim Wagner <wagnerj@proaxis.com>  
Subject: [aprsspec] Re: Help with packet decoding  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <l03130300b4d7e6a1695c@[198.106.196.203]>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Are you sure that you have the correct number of data bits? And, are  
treating parity correctly? And, correct number of stop bits.

All these things can create the sort of pattern-errors you have observed.  
Incidentally, I am REALLY interested in what you are doing with AVR. Which  
one are you using? Is this for a commercial product or will the code be  
available?

Many thanks...

Jim Wagner  
Oregon Research Electronics

-----  
wagnerj@proaxis.com                      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM              near Corvallis OR, home of  
ka7ehk@yahoo.com                        Oregon State University  
-----

A computer without Windows is like a cake without mustard. - anonymous

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 22 02:47:45 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA29429  
for <lyris.aprsspec@tappr.org>; Tue, 22 Feb 2000 02:47:43 -0600 (CST)  
Message-ID: <LYR11589-67208-2000.02.22-02.45.31--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Tue, 22 Feb 2000 08:46:02 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <Ian.Wade@care4free.net>  
Reply-To: ianwade@netro.co.uk  
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E  
References: <LYR14779-67103-2000.02.21-15.52.34--  
Ian.Wade#care4free.net@lists.tappr.org>  
In-Reply-To: <LYR14779-67103-2000.02.21-15.52.34--  
Ian.Wade#care4free.net@lists.tappr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <m5gzKGAKzks4Ewek@care4free.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <LYR14779-67103-2000.02.21-15.52.34--Ian.Wade#care4free.net@lists.tappr.org>, Jonathan Bradshaw <jonathan@nrgup.net> writes  
>I have read the MIC-E protocol up and down a few times but I'm still stuck on  
>the position ambiguity decoding.  
>

Jonathan, which description of the Mic-E protocol are you reading? Every description I've read has significant errors/omissions/misleading statements in it, which I've attempted to correct in the APRS Protocol Reference.

>For latitude it seems simple enough. You have six 4-bit nibbles which normally  
>could have a value of (in theory) 0-9 but I would assume when position  
>ambiguity is used that nibble has a value > 9. Easy enough to code  
>-- when that nibble is > 9 then substitute a space. Am I on the right track?

Take a look at the table at the top of page 38 of the APRS Protocol Reference (draft version 1.0.1g, 3 December 1999). This is the definitive and correct definition of all the possible legal latitude values. The position ambiguity character (space) occurs when the ASCII address character (after right shifting one bit) is "K" or "L".

[BTW, be very careful about using raw nibbles to define the latitude values. This works OK if the Message A/B/C bit is "0" or \*standard\* "1". But it does \*NOT\* work if this bit is \*custom\* "1". In that case, you need to subtract 1 from the nibble to get the latitude digit. This is where most of the earlier Mic-E documentation fell down.

For example, if the incoming ASCII character is "G", the corresponding hex value is 47, so the second nibble is 7. You then need to subtract 1 from this to get the latitude digit: 6.

If I were implementing code, I would use a table lookup approach, based on the table at the top of page 38. This way you don't need to think about special rules, and it would probably run faster].

>  
>Now I look at longitude. Its easy enough to compute but position ambiguity  
>doesn't seem to be done the same way so I am at a loss.

Position ambiguity is not specified in the longitude value. The longitude position ambiguity is assumed to be the same as the latitude position ambiguity, as defined above. (This is not made clear in the Protocol Reference -- I will be including a statement to this effect in the next release).

P.S. I assume you are also aware that for longitudes up to 9 degrees the longitude offset bit (+100 degrees) is \*set\*? This has caught out at least one other software developer).

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
+-----+

---  
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org



From bounce-aprsspec-11589@lists.tappr.org Tue Feb 22 08:07:00 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA16228  
for <lyris.aprsspec@tappr.org>; Tue, 22 Feb 2000 08:06:57 -0600 (CST)  
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs  
Date: Tue, 22 Feb 2000 09:06:32 -0500 (EST)  
From: Bob Bruninga <bruninga@nadn.navy.mil>  
X-Sender: bruninga@arctic  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
cc: wb4apr@amsat.org, aprsspec@lists.tappr.org  
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E  
In-Reply-To: <20000221165305.A3646@NrgUp.Net>  
Message-ID: <LYR11589-67219-2000.02.22-08.04.51--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <Pine.GSO.4.05L.10002220905271.24239-100000@arctic>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

On Mon, 21 Feb 2000, Jonathan Bradshaw wrote:

> I have read the MIC-E protocol up and down a few times but I'm still stuck on  
> the position ambiguity decoding.  
>  
> For latitude it seems simple enough. You have six 4-bit nibbles which normally  
> could have a value of (in theory) 0-9 but I would assume when position  
> ambiguity is used that nibble has a value > 9. Easy enough to code  
> -- when that nibble is > 9 then substitute a space. Am I on the right track?

Yes

>  
> Now I look at longitude. Its easy enough to compute but position ambiguity  
> doesn't seem to be done the same way so I am at a loss. I want to make  
> sure my Java class can correctly convert a MIC-E packet into a good  
> position report but this bit (ok, bad pun...) has me stuck!

AMbiguity is only encoded in LATITUDE. But it applies in both  
directions.. (longitude too)

>  
> I'd also like to find some test data. The TH-D7 I have doesn't seem to

> support that feature so I can't use it for testing.

Yes, someone needs to build a test file.....:-(

Bob

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 22 08:16:51 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA16463  
for <lyris.aprsspec@tapr.org>; Tue, 22 Feb 2000 08:16:47 -0600 (CST)  
Message-ID: <LYR11589-67221-2000.02.22-08.14.40--  
lyris.aprsspec@tapr.org@lists.tapr.org>  
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Cc: aprsspec@lists.tapr.org  
Subject: [aprsspec] APRS SPEC  
Date: Tue, 22 Feb 2000 09:21:56 -0500  
MIME-Version: 1.0  
Content-Type: text/plain  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6B90@SHPMAIL>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Let me say first that I am certainly thankful that a spec was finally delivered - kudo's to those who worked hard to make it happen... and I think the results are starting to show with some of the Super questions here - involving developing projects ..

Bob's comment about a test set brought on this posting...

Is a revised document imminent? What's next - the test set? Extensions? Any feedback about the future would be greatly appreciated..

Thanks again for the effort..

ALOHA

AH6LS

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org) Tue Feb 22 10:07:32 2000  
Received: from [lists.tapr.org](mailto:lists.tapr.org) ([lists.tapr.org](mailto:lists.tapr.org) [204.17.217.24])  
by [tapr.org](mailto:tapr.org) (8.9.3/8.9.3/1.13) with SMTP id KAA20393  
for <[lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)>; Tue, 22 Feb 2000 10:07:31 -0600 (CST)  
Message-ID: <LYR11589-67247-2000.02.22-10.05.23--  
[lyris.aprsspec#tapr.org@lists.tapr.org](mailto:lyris.aprsspec#tapr.org@lists.tapr.org)>  
Date: Tue, 22 Feb 2000 15:02:48 +0000  
To: "APRS Spec Discussion List" <[aprsspec@lists.tapr.org](mailto:aprsspec@lists.tapr.org)>  
From: Ian Wade <[Ian.Wade@care4free.net](mailto:Ian.Wade@care4free.net)>  
Reply-To: [ianwade@netro.co.uk](mailto:ianwade@netro.co.uk)  
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E  
References: <20000221165305.A3646@NrgUp.Net>  
<LYR14779-67219-2000.02.22-08.04.51--[Ian.Wade#care4free.net@lists.tapr.org](mailto:Ian.Wade#care4free.net@lists.tapr.org)>  
In-Reply-To: <LYR14779-67219-2000.02.22-08.04.51--  
[Ian.Wade#care4free.net@lists.tapr.org](mailto:Ian.Wade#care4free.net@lists.tapr.org)>  
MIME-Version: 1.0  
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>  
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>  
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>  
X-Message-Id: <FXUbBXAYUqs4EwZ6@care4free.net>  
Sender: [bounce-aprsspec-11589@lists.tapr.org](mailto:bounce-aprsspec-11589@lists.tapr.org)  
Precedence: bulk

In article <LYR14779-67219-2000.02.22-08.04.51--[Ian.Wade#care4free.net@lists.tapr.org](mailto:Ian.Wade#care4free.net@lists.tapr.org)>, Bob Bruninga <[bruninga@nadm.navy.mil](mailto:bruninga@nadm.navy.mil)> writes

>On Mon, 21 Feb 2000, Jonathan Bradshaw wrote:

>

>> I have read the MIC-E protocol up and down a few times but I'm still stuck on  
>> the position ambiguity decoding.

>>

>> For latitude it seems simple enough. You have six 4-bit nibbles which normally  
>> could have a value of (in theory) 0-9 but I would assume when position  
>> ambiguity is used that nibble has a value > 9. Easy enough to code  
>> -- when that nibble is > 9 then substitute a space. Am I on the right track?

>

>

>Yes

NO, NO, NO, NO !!!! This is exactly where early documentation was incorrect/incomplete/misleading.

For the reason I stated in my reply to Jonathan earlier today, that algorithm O-N-L-Y works if the Message A/B/C bit is a "0" or a S-T-A-N-D-A-R-D "1".

See the table at the top of page 38 in the spec.

If you receive a letter "J", the corresponding hex value is 0x4a; i.e. the second nibble ("a") is > 9. However, this is NOT an ambiguity space, it is latitude digit 9, BECAUSE THE MESSAGE A/B/C BIT IS A \*\*\*CUSTOM\*\*\* "1". THAT IS, WHEN THE CUSTOM "1" BIT IS SET, YOU HAVE TO SUBTRACT 1 FROM THE NIBBLE TO OBTAIN THE LATITUDE DIGIT.

I repeat: you should study the table on page 38 for the COMPLETE AND ACCURATE definition of valid latitude characters. Earlier documentation didn't say anything about how to handle bytes containing CUSTOM message "1" bits (or glossed over it very briefly and misleadingly), and many people seem to be unaware that you don't treat such latitude digits the same way as for bytes containing STANDARD message "1" bits.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                  email: g3nrw@arrl.net                 |
|                                                         |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org  
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 22 12:18:00 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA24837  
for <lyris.aprsspec@tapr.org>; Tue, 22 Feb 2000 12:17:58 -0600 (CST)  
From: "Rob Wittner" <rmw@rwa-inc.com>  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
Subject: [aprsspec] RE: Help - Position ambiguity in MIC-E  
Date: Tue, 22 Feb 2000 13:18:20 -0500  
Message-ID: <LYR11589-67268-2000.02.22-12.15.49-->

lyris.aprsspec#tapr.org@lists.tapr.org>  
MIME-Version: 1.0  
Content-Type: text/plain;  
    charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit  
X-Priority: 3 (Normal)  
X-MSMail-Priority: Normal  
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300  
In-Reply-To: <LYR11697-67247-2000.02.22-10.05.23--rmw#rwa-inc.com@lists.tapr.org>  
Importance: Normal  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <NCBBLCALKLCLLFGBMFCMCEELDEAA.rmw@rwa-inc.com>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

Just when I thought my Mic-E parser was working correctly... :-)

-Rob  
KZ5RW

-----Original Message-----

From: bounce-aprsspec-11697@lists.tapr.org  
[mailto:bounce-aprsspec-11697@lists.tapr.org]On Behalf Of Ian Wade  
Sent: Tuesday, February 22, 2000 10:03 AM  
To: APRS Spec Discussion List  
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E

In article <LYR14779-67219-2000.02.22-08.04.51--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes

>On Mon, 21 Feb 2000, Jonathan Bradshaw wrote:

>

>> I have read the MIC-E protocol up and down a few times but I'm still stuck on

>> the position ambiguity decoding.

>>

>> For latitude it seems simple enough. You have six 4-bit nibbles which normally

>> could have a value of (in theory) 0-9 but I would assume when position

>> ambiguity is used that nibble has a value > 9. Easy enough to code

>> -- when that nibble is > 9 then substitute a space. Am I on the right track?

>  
>  
>Yes

NO, NO, NO, NO !!!! This is exactly where early documentation was incorrect/incomplete/misleading.

For the reason I stated in my reply to Jonathan earlier today, that algorithm O-N-L-Y works if the Message A/B/C bit is a "0" or a S-T-A-N-D-A-R-D "1".

See the table at the top of page 38 in the spec.

If you receive a letter "J", the corresponding hex value is 0x4a; i.e. the second nibble ("a") is > 9. However, this is NOT an ambiguity space, it is latitude digit 9, BECAUSE THE MESSAGE A/B/C BIT IS A \*\*\*CUSTOM\*\*\* "1". THAT IS, WHEN THE CUSTOM "1" BIT IS SET, YOU HAVE TO SUBTRACT 1 FROM THE NIBBLE TO OBTAIN THE LATITUDE DIGIT.

I repeat: you should study the table on page 38 for the COMPLETE AND ACCURATE definition of valid latitude characters. Earlier documentation didn't say anything about how to handle bytes containing CUSTOM message "1" bits (or glossed over it very briefly and misleadingly), and many people seem to be unaware that you don't treat such latitude digits the same way as for bytes containing STANDARD message "1" bits.

73  
Ian, G3NRW  
Technical Editor, APRS Protocol Specification

--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |  
| |  
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |  
+-----+

---  
You are currently subscribed to aprsspec as: rmw@rwa-inc.com  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

---  
You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)  
To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 22 14:49:57 2000  
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])  
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29689  
for <lyris.aprsspec@tappr.org>; Tue, 22 Feb 2000 14:49:54 -0600 (CST)  
Message-ID: <LYR11589-67352-2000.02.22-14.47.43--  
lyris.aprsspec#tappr.org@lists.tappr.org>  
Date: Tue, 22 Feb 2000 20:48:20 +0000  
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>  
From: Ian Wade <Ian.Wade@care4free.net>  
Reply-To: ianwade@netro.co.uk  
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E  
References: <LYR11697-67247-2000.02.22-10.05.23--rmw#rwa-inc.com@lists.tappr.org>  
<NCBBLCALKLCLLFGBMFCMCEELDEAA.rmw@rwa-inc.com>  
In-Reply-To: <NCBBLCALKLCLLFGBMFCMCEELDEAA.rmw@rwa-inc.com>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>  
X-Message-Id: <CSnKw7AUyvs4EwI5@care4free.net>  
Sender: bounce-aprsspec-11589@lists.tappr.org  
Precedence: bulk

In article <NCBBLCALKLCLLFGBMFCMCEELDEAA.rmw@rwa-inc.com>, Rob Wittner  
<rmw@rwa-inc.com> writes

>  
>Just when I thought my Mic-E parser was working correctly... :-)  
>  
> -Rob  
> KZ5RW  
>

If it's any help, I've just scribbled away for a few minutes in QBASIC to  
produce a very quick n' dirty program to decode the MIC-E destination  
address. Enter the 6 characters of the address and the program will tell you  
the latitude, longitude offset, E/W and the three message bits. (It's a  
perfect example of a well-designed structured program incorporating all the  
latest object-oriented techniques, serving as a model for java/xml  
implementations ---- NOT! :-))

~~~~~  
REM MICDEC.BAS
REM A QUICK N' DIRTY MIC-E DESTINATION ADDRESS FIELD DECODER
REM by Ian Wade, G3NRW (g3nrw@arrl.net)

```
REM 22 February 2000
REM
REM There is no error handling in this simple demo program.
REM Input the destination address in the right format and the
REM program will work. Input it in the wrong format and it
REM probably won't.
```

```
CLS
```

```
DIM row$(43)
DATA "00 0 0 S+0 E"
DATA "10 0 0 S+0 E"
DATA "20 0 0 S+0 E"
DATA "30 0 0 S+0 E"
DATA "40 0 0 S+0 E"
DATA "50 0 0 S+0 E"
DATA "60 0 0 S+0 E"
DATA "70 0 0 S+0 E"
DATA "80 0 0 S+0 E"
DATA "90 0 0 S+0 E"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "01c1c1c--"
DATA "11c1c1c--"
DATA "21c1c1c--"
DATA "31c1c1c--"
DATA "41c1c1c--"
DATA "51c1c1c--"
DATA "61c1c1c--"
DATA "71c1c1c--"
DATA "81c1c1c--"
DATA "91c1c1c--"
DATA "?1c1c1c--"
DATA "?0 0 0 S+0 E"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "01s1s1sN+100W"
DATA "11s1s1sN+100W"
DATA "21s1s1sN+100W"
DATA "31s1s1sN+100W"
DATA "41s1s1sN+100W"
DATA "51s1s1sN+100W"
```



```

DATA "61s1s1sN+100W"
DATA "71s1s1sN+100W"
DATA "81s1s1sN+100W"
DATA "91s1s1sN+100W"
DATA "?1s1s1sN+100W"

FOR x = 1 TO 43
READ row$(x)
NEXT x

MAIN: INPUT "Input a 6-character destination address (e.g. 1P2SW7): ", D$

PRINT "Lat: ";

FOR n = 1 TO 6
L = ASC(MID$(D$, n, 1)) - 47
IF L > 42 THEN L = L - 32

ON n GOTO one, two, three, four, five, six
one:  A$ = MID$(row$(L), 2, 2): GOTO xout
two:  b$ = MID$(row$(L), 4, 2): GOTO xout
three: c$ = MID$(row$(L), 6, 2): GOTO xout
four:  ns$ = MID$(row$(L), 8, 1): GOTO xout
five:  offset$ = MID$(row$(L), 9, 4): GOTO xout
six:  we$ = MID$(row$(L), 13, 1): GOTO xout

xout:  PRINT MID$(row$(L), 1, 1);

NEXT n

PRINT " "; ns$; "      offset: "; offset$; "      long: "; we$;
PRINT "      Message A:"; A$; " B:"; b$; " C:"; c$
PRINT

GOTO MAIN

```

```

~~~~~

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

```

```

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                     |
| APRS PROTOCOL SPEC:  http://www.tapir.org/tapir/html/Faprswg.html |
+-----+

```

+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 22 15:51:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02749
for <lyris.aprsspec@tapr.org>; Tue, 22 Feb 2000 15:51:32 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-67359-2000.02.22-15.49.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 22 Feb 2000 16:49:27 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Re: APRS SPEC
Cc: aprsspec@lists.tapr.org
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <v04205502b4d8b3fcc5cb@[165.230.133.70]>
<LYR11588-67221-2000.02.22-08.14.40--ksproul#vger.rutgers.edu@lists.tapr.org>
<LYR11588-67221-2000.02.22-08.14.40--ksproul#vger.rutgers.edu@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>Whats Next?

One thing that will be worked on and then submitted to this group is the Hurricane data.. The current documented implementation is not complete.

Another thing that will be worked on is Shelter information. There is a LARGE push on this from the people in Florida including the American Red Cross.

On both of these, we (those that have interest in this that are pushing me) will figure out 'workable' solutions and then post them here for comment etc, following the procedures put forth by the APRS Working Group charter.

Keith Sproul

>Let me say first that I am certainly thankful that a spec was finally
>delivered - kudo's to those who worked hard to make it happen... and I think
>the results are starting to show with some of the Super questions here -
>involving developing projects ..
>
>Bob's comment about a test set brought on this posting...
>
>Is a revised document imminent? What's next - the test set? Extensions? Any
>feedback about the future would be greatly appreciated..
>
>Thanks again for the effort..
>
>ALOHA
>AH6LS
>
>---
>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

Keith Sproul	732 445-3695 Office
Student Housing Network Coordinator	732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu	732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/	WU2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 22 16:44:10 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04632
for <lyris.aprsspec@tappr.org>; Tue, 22 Feb 2000 16:44:09 -0600 (CST)
Date: Tue, 22 Feb 2000 16:08:39 -0600
From: Bill Diaz <billdiaz@megsinet.net>
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Reply-to: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
Message-id: <LYR11589-67367-2000.02.22-16.42.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0
Content-type: text/plain; charset="us-ascii"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01BF7D4F.1B7C90E0.billldiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ian,

Qbasic is cruel and unusual punishment for some of us. Much easier in many modern development environments to mask and shift the bits as needed rather than dealing with a lookup table.

Thanks for the Qbasic example, it will keep me from yearning for the 'good old days'. <grin>.

I'm sure users who still use qbasic will benefit, however.

Bill KC9XG

On Tuesday, February 22, 2000 2:48 PM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

> In article <NCBBLCALCLCLLFGBMFCMCEELDEAA.rmw@rwa-inc.com>, Rob Wittner

> <rmw@rwa-inc.com> writes

> >

> >Just when I thought my Mic-E parser was working correctly... :-)

> >

> > -Rob

> > KZ5RW

> >

>

> If it's any help, I've just scribbled away for a few minutes in QBASIC to
> produce a very quick n' dirty program to decode the MIC-E destination
> address. Enter the 6 characters of the address and the program will tell you
> the latitude, longitude offset, E/W and the three message bits. (It's a
> perfect example of a well-designed structured program incorporating all the
> latest object-oriented techniques, serving as a model for java/xml
> implementations ---- NOT! :-))

>

> ~~~~~

>

> REM MICDEC.BAS

> REM A QUICK N' DIRTY MIC-E DESTINATION ADDRESS FIELD DECODER

> REM by Ian Wade, G3NRW (g3nrw@arrl.net)

> REM 22 February 2000

> REM

> REM There is no error handling in this simple demo program.

```

> REM Input the destination address in the right format and the
> REM program will work. Input it in the wrong format and it
> REM probably won't.
>
> CLS
>
> DIM row$(43)
> DATA "00 0 0 S+0 E"
> DATA "10 0 0 S+0 E"
> DATA "20 0 0 S+0 E"
> DATA "30 0 0 S+0 E"
> DATA "40 0 0 S+0 E"
> DATA "50 0 0 S+0 E"
> DATA "60 0 0 S+0 E"
> DATA "70 0 0 S+0 E"
> DATA "80 0 0 S+0 E"
> DATA "90 0 0 S+0 E"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "01c1c1c-- -"
> DATA "11c1c1c-- -"
> DATA "21c1c1c-- -"
> DATA "31c1c1c-- -"
> DATA "41c1c1c-- -"
> DATA "51c1c1c-- -"
> DATA "61c1c1c-- -"
> DATA "71c1c1c-- -"
> DATA "81c1c1c-- -"
> DATA "91c1c1c-- -"
> DATA "?1c1c1c-- -"
> DATA "?0 0 0 S+0 E"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "-- - - -- -"
> DATA "01s1s1sN+100W"
> DATA "11s1s1sN+100W"
> DATA "21s1s1sN+100W"
> DATA "31s1s1sN+100W"
> DATA "41s1s1sN+100W"
> DATA "51s1s1sN+100W"
> DATA "61s1s1sN+100W"
> DATA "71s1s1sN+100W"
> DATA "81s1s1sN+100W"

```

```

> DATA "91s1s1sN+100W"
> DATA "?1s1s1sN+100W"
>
> FOR x = 1 TO 43
> READ row$(x)
> NEXT x
>
> MAIN: INPUT "Input a 6-character destination address (e.g. 1P2SW7): ", D$
>
> PRINT "Lat: ";
>
> FOR n = 1 TO 6
> L = ASC(MID$(D$, n, 1)) - 47
> IF L > 42 THEN L = L - 32
>
> ON n GOTO one, two, three, four, five, six
> one:  A$ = MID$(row$(L), 2, 2): GOTO xout
> two:  b$ = MID$(row$(L), 4, 2): GOTO xout
> three: c$ = MID$(row$(L), 6, 2): GOTO xout
> four: ns$ = MID$(row$(L), 8, 1): GOTO xout
> five: offset$ = MID$(row$(L), 9, 4): GOTO xout
> six:  we$ = MID$(row$(L), 13, 1): GOTO xout
>
> xout: PRINT MID$(row$(L), 1, 1);
>
> NEXT n
>
> PRINT " "; ns$; "      offset: "; offset$; "      long: "; we$;
> PRINT "      Message A: "; A$; " B: "; b$; " C: "; c$
> PRINT
>
> GOTO MAIN
>
> ~~~~~
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
>
> --
> +-----+
> | APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
> |                               email: g3nrw@arrl.net             |
> |                               |                                 |
> | APRS PROTOCOL SPEC:  http://www.tapir.org/tapir/html/Faprswg.html |
> +-----+
>
> ---

```

> You are currently subscribed to aprsspec as: billdiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 22 16:53:24 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04903
for <lyris.aprsspec@tappr.org>; Tue, 22 Feb 2000 16:53:21 -0600 (CST)
Message-Id: <LYR11589-67370-2000.02.22-16.51.16--
lyris.aprsspec#tappr.org@lists.tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>, jra@meow.febo.com
Subject: [aprsspec] Re: APRS SPEC
In-reply-to: Your message of "Tue, 22 Feb 2000 09:21:56 EST."
<LYR11592-67221-2000.02.22-08.14.40--n8ur#tappr.org@lists.tappr.org>
Date: Tue, 22 Feb 2000 17:53:01 -0500
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200002222253.RAA17862@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I've been remiss in not posting an update recently. Sorry about that.
We had a huge batch of corrections, suggestions, etc., from the comment
period, and that, combined with real-life work conflicts for a couple of
folks, has slowed down the final revision. But Ian is working on it, and
I hope the final release won't be delayed too much longer.

By the way -- the comments received have been very helpful, and incorporating
them will make the final Protocol Spec a much better document.

73,
John N8UR
jra@febo.com

In message <LYR11592-67221-2000.02.22-08.14.40--n8ur#tappr.org@lists.tappr.org>,
"Sadowski, Allan" writes:
>Let me say first that I am certainly thankful that a spec was finally
>delivered - kudo's to those who worked hard to make it happen... and I think
>the results are starting to show with some of the Super questions here -

>involving developing projects ..
>
>Bob's comment about a test set brought on this posting...
>
>Is a revised document imminent? What's next - the test set? Extensions? Any
>feedback about the future would be greatly appreciated..
>
>Thanks again for the effort..
>
>ALOHA
>AH6LS
>
>---
>You are currently subscribed to aprsspec as: n8ur@tapr.org
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 23 01:56:46 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA00769
for <lyris.aprsspec@tapr.org>; Wed, 23 Feb 2000 01:56:46 -0600 (CST)
Message-ID: <LYR11589-67490-2000.02.23-01.54.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 23 Feb 2000 07:43:13 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Help - Position ambiguity in MIC-E
References: <LYR14779-67367-2000.02.22-16.42.08--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-67367-2000.02.22-16.42.08--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <qVmwhDAR+4s4Ew9C@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-67367-2000.02.22-16.42.08--Ian.Wade#care4free.net@l
ists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>Ian,
>
>Qbasic is cruel and unusual punishment for some of us. Much easier in many
>modern development environments to mask and shift the bits as needed rather
>than dealing with a lookup table.

I know, I know! It's cruel for me too -- I haven't written real code for years now :-)) As for table lookup, my early programming days in the mid 1960s were (mis)spent on radar and real-time process control apps, when machines were very slow and we had to squeeze every ounce of speed out of 'em. There weren't enough machine cycles available for all that new fangled bit shiftin' malarky, so table lookup was the only way to go, and old habits die hard. I won't let it happen again!

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 23 04:12:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA13360
for <lyris.aprsspec@tapr.org>; Wed, 23 Feb 2000 04:12:52 -0600 (CST)
Message-ID: <LYR11589-67496-2000.02.23-04.10.36--
lyris.aprsspec@tapr.org>
Date: Wed, 23 Feb 2000 10:06:30 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] MIC-E Destination Address Decoder -- update
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>


```

DATA "21c1c1c-- -"
DATA "31c1c1c-- -"
DATA "41c1c1c-- -"
DATA "51c1c1c-- -"
DATA "61c1c1c-- -"
DATA "71c1c1c-- -"
DATA "81c1c1c-- -"
DATA "91c1c1c-- -"
DATA "?1c1c1c-- -"
DATA "?0 0 0 S+0 E"
DATA "-- - - -"
DATA "-- - - -"
DATA "-- - - -"
DATA "01s1s1sN+100W"
DATA "11s1s1sN+100W"
DATA "21s1s1sN+100W"
DATA "31s1s1sN+100W"
DATA "41s1s1sN+100W"
DATA "51s1s1sN+100W"
DATA "61s1s1sN+100W"
DATA "71s1s1sN+100W"
DATA "81s1s1sN+100W"
DATA "91s1s1sN+100W"
DATA "?1s1s1sN+100W"

```

```

DATA "M7:EMERGENCY "
DATA "M6:Priority "
DATA "M5:Special "
DATA "M4:Committed "
DATA "M3:Returning "
DATA "M2:In Service"
DATA "M1:En Route "
DATA "M0:Off Duty "

```

```

DATA "C7:EMERGENCY "
DATA "C6:Custom-6 "
DATA "C5:Custom-5 "
DATA "C4:Custom-4 "
DATA "C3:Custom-3 "
DATA "C2:Custom-2 "
DATA "C1:Custom-1 "
DATA "C0:Custom-0 "

```

```

FOR x = 1 TO 43
READ row$(x)
NEXT x

```

```

FOR x = 1 TO 8

```

```
READ standard$(x)
NEXT x
```

```
FOR x = 1 TO 8
READ custom$(x)
NEXT x
```

```
MAIN: INPUT "Input a 6-character destination address (e.g. 1P2SW7): ", D$
```

```
PRINT "Lat: ";
custom = 0
```

```
FOR n = 1 TO 6
L = ASC(MID$(D$, n, 1)) - 47
```

```
IF L > 43 THEN L = L - 32
```

```
ON n GOTO one, two, three, four, five, six
one:  a$ = MID$(row$(L), 2, 2): IF a$ = "1c" THEN custom = 1: GOTO xout
two:  b$ = MID$(row$(L), 4, 2): IF b$ = "1c" THEN custom = 1: GOTO xout
three: c$ = MID$(row$(L), 6, 2): IF c$ = "1c" THEN custom = 1: GOTO xout
four:  ns$ = MID$(row$(L), 8, 1): GOTO xout
five:  offset$ = MID$(row$(L), 9, 4): GOTO xout
six:   we$ = MID$(row$(L), 13, 1): GOTO xout
```

```
xout: PRINT MID$(row$(L), 1, 1);
```

```
NEXT n
```

```
PRINT " "; ns$; "    offset: "; offset$; "    long: "; we$; "    Message: ";
```

```
m = VAL(MID$(a$, 1, 1)) * 4 + VAL(MID$(b$, 1, 1)) * 2 + VAL(MID$(c$, 1, 1)) + 1
```

```
IF custom = 1 THEN PRINT custom$(m) ELSE PRINT standard$(m)
```

```
PRINT
```

```
GOTO MAIN
```

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 24 10:30:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25373
for <lyris.aprsspec@tapr.org>; Thu, 24 Feb 2000 10:30:55 -0600 (CST)
Message-Id: <LYR11589-67756-2000.02.24-10.28.46--
lyris.aprsspec@lists.tapr.org>
X-Sender: lhendric@mail.sdsu.edu (Unverified)
Date: Thu, 24 Feb 2000 08:26:09 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Lief Hendrickson <lhendric@mail.sdsu.edu>
Subject: [aprsspec] MIC-E Destination Address Decoder -- update
In-Reply-To: <LYR13303-67667-2000.02.24-00.00.53--lhendric@mail.sdsu.edu
@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.2.1.20000224082219.00a5dee0@mail.sdsu.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ian,

Thanks for posting the QBASIC code to the list. It's very helpful in
describing how the decoding is done- even if other programming languages
may be more efficient.

-Lief Hendrickson

At 12:00 AM 2/24/00 -0600, you wrote:

>Subject: MIC-E Destination Address Decoder -- update

>From: Ian Wade <Ian.Wade@care4free.net>

>Date: Wed, 23 Feb 2000

>
>I've updated the QBASIC fragment I posted yesterday, to include decoding
>of the
>message type. I've done this to highlight the little known fact that if any of
>the message bits A/B/C contain a *custom* "1", the message is a *custom*
>message (even if any of the other bits happen to be a *standard* "1"). In
>other
>words, the presence of a custom "1" forces all other "1" bits to be treated as
>custom "1"s also. This is not clear in the draft version of the spec.
[...stuff deleted...]

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 24 16:49:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA08315
for <lyris.aprsspec@tapr.org>; Thu, 24 Feb 2000 16:49:29 -0600 (CST)
Message-Id: <LYR11589-67802-2000.02.24-16.47.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: f5orf#mail.filnet.fr@tv
Date: Thu, 24 Feb 2000 23:47:00 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Patrick <f5orf@filnet.fr>
Subject: [aprsspec] Questions about the 101g draft
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3.0.3.32.20000224234700.04181bfc@tv>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi,
I'm just reading the spec draft. Good job.
I'm writing a soft for ELT search and rescue. In France, ham are the only
terrestrial radioelectric research team for aircraft disaster.

I was trying last year to understand the aprs message format, but it seems so
confusing for me than I preferred to develop my own protocol. The draft you've
published was more understandable. Then I will add a compatibilty with aprs
messages.

But I've some remarks/questions:

page 21: what is the datum for all the coordinates? Is it WGS 84? The NMEA is based on the WGS 84, then I think it's better to use the same for the aprs message. The same coordinates in another datum could cause errors up to 1000 meters from the real position.

page 25: How was choosed the power step? The important thing in knowing the power is to calculate the attenuation path to have an idee of the range. This is proportional to a log scale. Why not use a log scale in the choice of the power step? There is 6 db between 1 and 4 watts; 3 between 4 and 9; 2 between 16 and 25; 1 between 25 an 36, 2 again between 49 an 64, 1 between 64 and 81... Very strange...

What is the antenna gain reference. Is it dBi, dBd or dBj (japanese dB especially on comet antennas HI) ?

Everywhere:

For the differents lenght units, I know that you are well attached to the imperial units, but as you know, there's an International System Unit standard which recommand the use of meters instead of feet and miles. Maybe a translation of the different constants in the two standards and the addition of the unit in the messages will internationnalise your protocol.

Good work and 73.

Patrick, f5orf

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 29 15:03:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA13300
for <lyris.aprsspec@tapr.org>; Tue, 29 Feb 2000 15:03:50 -0600 (CST)
Message-ID: <LYR11589-68610-2000.02.29-15.02.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 29 Feb 2000 21:01:54 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Mic-E Decoder -- upgraded to handle longitude/speed/course
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <fexNTSACPDv4Ewzj@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Sorry guys. Although I promised not to post any more QBASIC, I'm on a roll now!
Here is
a complete QBASIC program to decode the destination callsign and the longitude,
speed
and course. I know the coding is kludgy, but I really wrote it to check out
certain
things for the APRS Protocol Spec.

As far as I know it works OK. However, if you find any bugs, please let me know.

Hint: Log some IGATE output, then look for the Mic-E transmissions. Very often a
Mic-E
station transmits a conventional posit just before/after the Mic-E transmission,
so it's
possible to correlate the two.

```
~~~~~  
~~~~~  
  
REM  MICDEC.BAS  
REM  A QUICK N' DIRTY MIC-E DATA DECODER  
REM  by Ian Wade, G3NRW (g3nrw@arrl.net)  
REM  29 February 2000  
REM  
REM  Decodes the 6-byte destination callsign, containing:  
REM    Latitude, North/South bit, West/East bit, Longitude  
REM    Offset, Message Code.  
REM  
REM  Decodes the first 7 bytes of the Information field:  
REM    APRS Data Type Identifier, Longitude, Speed, Course.  
REM  
REM  Understands Position Ambiguity (minutes and hundredths  
REM  of minutes).  
  
REM  Error handling in this simple demo program is rudimentary  
REM  and far from bombproof.  
  
REM  Input the destination address and Information field in  
REM  the right format and the program will work. Input it in  
REM  the wrong format and it probably won't.
```



```
REM NOTE: If ANY of the Message A/B/C bits is a Custom-1, the
REM message is a *Custom* message, EVEN IF ANY OF THE
REM REMAINING BITS HAPPENS TO BE A STANDARD-1.
```

```
REM NOTE: This program does not support Rev 0 beta units.
```

```
CLS
```

```
DIM row$(43)
```

```
DATA "00 0 0 S+0 E"
```

```
DATA "10 0 0 S+0 E"
```

```
DATA "20 0 0 S+0 E"
```

```
DATA "30 0 0 S+0 E"
```

```
DATA "40 0 0 S+0 E"
```

```
DATA "50 0 0 S+0 E"
```

```
DATA "60 0 0 S+0 E"
```

```
DATA "70 0 0 S+0 E"
```

```
DATA "80 0 0 S+0 E"
```

```
DATA "90 0 0 S+0 E"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "01c1c1c-- -"
```

```
DATA "11c1c1c-- -"
```

```
DATA "21c1c1c-- -"
```

```
DATA "31c1c1c-- -"
```

```
DATA "41c1c1c-- -"
```

```
DATA "51c1c1c-- -"
```

```
DATA "61c1c1c-- -"
```

```
DATA "71c1c1c-- -"
```

```
DATA "81c1c1c-- -"
```

```
DATA "91c1c1c-- -"
```

```
DATA "?1c1c1c-- -"
```

```
DATA "?0 0 0 S+0 E"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "-- - - - -"
```

```
DATA "01s1s1sN+100W"
```

```
DATA "11s1s1sN+100W"
```

```
DATA "21s1s1sN+100W"
```

```
DATA "31s1s1sN+100W"
```

```
DATA "41s1s1sN+100W"
```

```
DATA "51s1s1sN+100W"
```

```
DATA "61s1s1sN+100W"
DATA "71s1s1sN+100W"
DATA "81s1s1sN+100W"
DATA "91s1s1sN+100W"
DATA "?1s1s1sN+100W"
```

```
DATA "EMERGENCY "
DATA "M6:Priority "
DATA "M5:Special "
DATA "M4:Committed "
DATA "M3:Returning "
DATA "M2:In Service"
DATA "M1:En Route "
DATA "M0:Off Duty "
```

```
DATA "EMERGENCY "
DATA "C6:Custom-6 "
DATA "C5:Custom-5 "
DATA "C4:Custom-4 "
DATA "C3:Custom-3 "
DATA "C2:Custom-2 "
DATA "C1:Custom-1 "
DATA "C0:Custom-0 "
```

```
FOR x = 1 TO 43
READ row$(x)
NEXT x
```

```
FOR x = 1 TO 8
READ STANDARD$(x)
NEXT x
```

```
FOR x = 1 TO 8
READ custom$(x)
NEXT x
```

```
main: PRINT "+++++"
INPUT "Input the 6-character destination address ----- e.g. S5RW4S : ", d$
LINE INPUT "Input the first 7 bytes of Information field data -- e.g. `}+t15[ : ",
i$
PRINT
```

```
PRINT "Lat: ";
custom = 0
ambig = 0
```

```
FOR n = 1 TO 6
```

```
l = ASC(MID$(d$, n, 1)) - 47
IF l > 43 THEN l = l - 32
```

```
x$ = MID$(row$(1), 1, 1)
```

```
ON n GOSUB one, two, three, four, five, six
```

```
NEXT n
GOTO rest
```

```
one:  PRINT x$;
      A$ = MID$(row$(1), 2, 2)
      IF A$ = "1c" THEN custom = 1
      RETURN
```

```
two:  PRINT x$; " deg ";
      B$ = MID$(row$(1), 4, 2)
      IF B$ = "1c" THEN custom = 1
      RETURN
```

```
three: PRINT x$;
      C$ = MID$(row$(1), 6, 2)
      IF C$ = "1c" THEN custom = 1
      IF x$ = "?" AND ambig = 0 THEN ambig = 3
      RETURN
```

```
four:  PRINT x$; ".";
      ns$ = MID$(row$(1), 8, 1)
      IF x$ = "?" AND ambig = 0 THEN ambig = 4
      RETURN
```

```
five:  PRINT x$;
      offset$ = MID$(row$(1), 10, 3)
      IF x$ = "?" AND ambig = 0 THEN ambig = 5
      RETURN
```

```
six:   PRINT x$; " mins ";
      we$ = MID$(row$(1), 13, 1)
      IF x$ = "?" AND ambig = 0 THEN ambig = 6
      RETURN
```

```
rest: PRINT ns$; "      offset: +"; offset$; "      long: "; we$; "      Message: ";
```

```
m = VAL(MID$(A$, 1, 1)) * 4 + VAL(MID$(B$, 1, 1)) * 2 + VAL(MID$(C$, 1, 1)) + 1
```

```
IF custom = 1 THEN PRINT custom$(m) ELSE PRINT STANDARD$(m)
```

```
ID$ = MID$(i$, 1, 1)
```

```
IF ID$ = "" THEN PRINT "Current GPS Data. Long:"; : GOTO degrees
IF ID$ = "" THEN PRINT "Old GPS Data. Long:"; : GOTO degrees
PRINT "Bad APRS Data Type Identifier": GOTO main
```

```
degrees: d = ASC(MID$(i$, 2, 1)) - 28
IF d < 10 OR d > 99 THEN PRINT "Bad long degrees": GOTO main
d = d + VAL(offset$)
```

```
IF d > 189 AND d < 200 THEN d = d - 190: PRINT d; : GOTO mins
IF d > 179 AND d < 190 THEN d = d - 80: PRINT d; : GOTO mins
PRINT d;
```

```
mins: PRINT "deg ";
m = ASC(MID$(i$, 3, 1)) - 28
IF m < 10 OR m > 69 THEN PRINT "Bad long minutes": GOTO main
IF m > 59 THEN m = m - 60
m = m + 100
m$ = MID$(STR$(m), 3, 2) + "."
```

```
h = ASC(MID$(i$, 4, 1)) - 28
IF h < 0 OR h > 99 THEN PRINT "Bad long hundredths": GOTO main
h = h + 100
h$ = MID$(STR$(h), 3, 2) + " mins"
```

```
minout$ = m$ + h$
```

```
IF ambig = 3 THEN MID$(minout$, 1, 5) = "??.???"
IF ambig = 4 THEN MID$(minout$, 2, 4) = "?..??"
IF ambig = 5 THEN MID$(minout$, 4, 2) = "??"
IF ambig = 6 THEN MID$(minout$, 5, 1) = "?"
```

```
PRINT minout$;
```

```
sp = ASC(MID$(i$, 5, 1)) - 28
IF sp < 20 OR sp > 99 THEN PRINT "Bad SP+28": GOTO main
IF sp > 79 THEN sp = sp - 80
sp = sp * 10
```

```
DC = ASC(MID$(i$, 6, 1)) - 28
IF DC = 193 THEN DC = 96
```

```
IF DC < 0 OR DC > 97 THEN PRINT "Bad DC+28": GOTO main
knots = sp + DC \ 10
PRINT "    Speed:"; knots;
```

```
course = (DC MOD 10 - 4) * 100
```

```
SE = ASC(MID$(i$, 7, 1)) - 28
```

```
IF SE < 4 OR SE > 99 THEN PRINT "Bad SE+28": GOTO main
```

```
course = course + SE  
PRINT "  Course: "; course
```

```
GOTO main
```

```
~~~~~  
~~~~~
```

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

```
--  
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
|                               email: g3nrw@arrl.net      |  
|                               |                          |  
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |  
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 1 01:26:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09188
for <lyris.aprsspec@tapr.org>; Wed, 1 Mar 2000 01:26:08 -0600 (CST)
Message-ID: <LYR11589-68709-2000.03.01-01.24.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 1 Mar 2000 07:24:27 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] test only
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <ABL60IArWMv4Ewgl@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

qwerty

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 1 01:33:17 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09518
for <lyris.aprsspec@tapr.org>; Wed, 1 Mar 2000 01:33:14 -0600 (CST)
Message-ID: <LYR11589-68711-2000.03.01-01.31.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 1 Mar 2000 07:31:57 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] test with a very long line
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Khq4sMAtdMv4EwC2@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

~~~~~  
~~~~~  

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 2 12:11:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04132
for <lyris.aprsspec@tapr.org>; Thu, 2 Mar 2000 12:11:54 -0600 (CST)
Message-ID: <LYR11589-68868-2000.03.02-12.09.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 2 Mar 2000 10:10:36 -0800 (PST)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Symbol Questions
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20000302181036.3186.qmail@web903.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

While implementing the symbols in my new APRS program, the following questions have appeared:

Symbol "/#" - Digipeater (white center)
what does this mean? Does it mean green star (as in "\#")
but with a white center rather than overlay char?

Symbol "\W" - NWS Site (options) [w/ overlay]
what does "(options)" mean?

Symbol "_" - Weather Site (green digi) [w/ ov'lay]
what does "(green digi)" mean?

Symbol "\i" - Indoor short range digi [w/ overlay]
Does anyone have any suggestions about the symbol?

Symbol "\a" - ARRL ARES etc.
Is a particular symbol expected here?

Symbol "/"&" - HF Gateway

Folks in the Pacific NW US seem to be using diamond with

A number of the symbols are very difficult to represent graphically. These include "hail", "smoke", "freezing rain", "haze", "earthquake", "snow shower" (as distinct from "snow"), "rain shower" (as distinct from "rain"), "blowing dust/sand", "fog", etc. Are there any thoughts about representing these?

Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 2 12:26:00 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04576

for <lyris.aprsspec@tapr.org>; Thu, 2 Mar 2000 12:25:58 -0600 (CST)

Message-ID: <LYR11589-68871-2000.03.02-12.24.16--

lyris.aprsspec@tapr.org>

Date: Thu, 2 Mar 2000 10:17:12 -0800 (PST)

From: James Wagner <ka7ehk@yahoo.com>

Subject: [aprsspec] More Symbol Questions

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <20000302181712.3236.qmail@web904.mail.yahoo.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Sorry, the previous message was sent before it was complete.

Symbol "/"&" HF Gateway - local use seems to be diamond with overlay of "G". What is expected for this symbol?

Symbol "<" Advisory - what is this supposed to show?

Symbol "\" Unknown or indeterminate position - if the

position is unknown or indeterminate, then there is
no position information which will allow it to be

Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 2 12:39:15 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04928

for <lyris.aprsspec@tapr.org>; Thu, 2 Mar 2000 12:39:12 -0600 (CST)

Message-ID: <LYR11589-68877-2000.03.02-12.37.24--

lyris.aprsspec@tapr.org>

Date: Thu, 2 Mar 2000 10:37:23 -0800 (PST)

From: James Wagner <ka7ehk@yahoo.com>

Subject: [aprsspec] More and more symbol questions

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <20000302183723.14504.qmail@web906.mail.yahoo.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

My apologies folks.

I have a new keyboard and I am hitting some (unknown) key
which causes messages to be sent from the Yahoo mail
composition page.

Symbol "\d" DX Spot by Callsign - what is anticipated here?

A DX symbol with the callsign next to it? Is the callsign
in addition to the callsign of the station originating
the symbol or does it substitute? How is the callsign
specified? I don't see it in the protocol specs anywhere.

Symbol "\c" Civil Defence (RACES)- is this expected to be the

circle with a triangle symbol (that used to say "CD" in the center of the triangle)?

Thanks very much for your patience,

Jim Wagner, KA7EHK

Do You Yahoo!?

Talk to your friends online with Yahoo! Messenger.

<http://im.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 2 14:17:01 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08152

for <lyris.aprsspec@tapr.org>; Thu, 2 Mar 2000 14:16:57 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 2 Mar 2000 15:05:14 -0500 (EST)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Symbol Questions

In-Reply-To: <LYR11586-68868-2000.03.02-12.09.36--bruninga#nadn.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-68885-2000.03.02-14.15.15--lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GS0.4.05L.10003021501130.23697-1000000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Thu, 2 Mar 2000, James Wagner wrote:

> Symbol "/"# - Digipeater (white center)
> what does this mean? Does it mean green star (as in "/"#)
> but with a white center rather than overlay char?
yes

> Symbol "\W" - NWS Site (options) [w/ overlay]
> what does "(options)" mean?
Anything you want using one of the overlays
>
> Symbol "_" - Weather Site (green digi) [w/ ov'lay]
> what does "(green digi)" mean?

Its a WX symbol but green to show it is also a digi

> Symbol "\i" - Indoor short range digi [w/ overlay]
> Does anyone have any suggestions about the symbol?

Yes, its a square box that a character can be overlayed on.

>
> Symbol "\a" - ARRL ARES etc.
> Is a particular symbol expected here?

A for ARES, R for RACES, etc

>
> Symbol "/"&" - HF Gateway
> Folks in the Pacific NW US seem to be using diamond with
OVERLAY. Yes, the diamond with overlay is the more general.

> A number of the symbols are very difficult to represent
> graphically. These include "hail", "smoke", "freezing rain",
> "haze", "earthquake", "snow shower" (as distinct from "snow"),
> "rain shower" (as distinct from "rain"), "blowing dust/sand",
> "fog", etc. Are there any thoughts about representing these?

See APRSdos. All of thsoe are displayed using the standard NWS weather
symbols. Dont think in terms of "icons" That is only dirven by WInAPRS
and Bill Gates. The symbols can be much more general than that.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Mar 2 14:22:32 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08350
for <lyris.aprsspec@tappr.org>; Thu, 2 Mar 2000 14:22:29 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 2 Mar 2000 15:06:33 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More Symbol Questions
In-Reply-To: <LYR11586-68871-2000.03.02-12.24.16--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-68887-2000.03.02-14.20.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003021505360.23697-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 2 Mar 2000, James Wagner wrote:

> Symbol "<" Advisory - what is this supposed to show?

A nNWS Advisory. It shows as one gale flag

> Symbol "\" Unknown or indeterminate position - if the
> position is unknown or indeterminate, then there is
> no position information which will allow it to be

Yes, but the field is defined, so you need something to put in it.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Mar 3 10:26:56 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA02766
for <lyris.aprsspec@tapr.org>; Fri, 3 Mar 2000 10:26:51 -0600 (CST)
Message-ID: <LYR11589-69039-2000.03.03-10.25.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 3 Mar 2000 08:26:31 -0800 (PST)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Re: unknown or indeterminate position "symbol"
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20000303162631.18278.qmail@web904.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Yesterday, I posed several questions, one of which
was:

> Symbol "\." Unknown or indeterminate position - if the
> position is unknown or indeterminate, then there is
> no position information which will allow it to be
> positioned on a map
>

Bob Bruninga responded:

Yes, but the field is defined, so you need something to put in it.

With all due respect, this is a program-specific response.
Maybe HE needed to do that, but it does not mean that anyone
else has to.

Thanks,

Jim Wagner,
KA7EHK

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 3 12:37:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA09467
for <lyris.aprsspec@tapr.org>; Fri, 3 Mar 2000 12:37:57 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Mar 2000 13:34:21 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: unknown or indeterminate position "symbol"
In-Reply-To: <LYR11586-69039-2000.03.03-10.25.13--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-69050-2000.03.03-12.36.20--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003031330420.23955-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 3 Mar 2000, James Wagner wrote:

> Yesterday, I posed several questions, one of which
> was:
>
> > Symbol "\" Unknown or indeterminate position - if the
> > position is unknown or indeterminate, then there is
> > no position information which will allow it to be
> > positioned on a map

> Bob Bruninga responded:
> Yes, but the field is defined, so you need something to put in it.
>
> With all due respect, this is a program-specific response.
> Maybe HE needed to do that, but it does not mean that anyone
> else has to.

No it is not. There is a field in APRS for the SYMBOL. You CANNOT LEAVE

IT OUT. If you have an unknown or indeterminate position, then you must still put SOMETHING in that SYMBOL field. The definition of a UNKNOWN or INDETERMINATE position symbol is provided for that case. There is nothing program specific about that.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 4 01:13:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA12736
for <lyris.aprsspec@tapr.org>; Sat, 4 Mar 2000 01:13:15 -0600 (CST)
Message-Id: <LYR11589-69141-2000.03.04-01.11.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 4 Mar 2000 00:12:38 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: unknown or indeterminate position "symbol"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130302b4e66744ab03@[206.163.154.82]>
<LYR11893-69112-2000.03.04-00.00.22--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>On Fri, 3 Mar 2000, James Wagner wrote:

>

>> Yesterday, I posed several questions, one of which

>> was:

>>

>> > Symbol "\." Unknown or indeterminate position - if the
>> > position is unknown or indeterminate, then there is
>> > no position information which will allow it to be
>> > positioned on a map

>

>> Bob Bruninga responded:
>> Yes, but the field is defined, so you need something to put in it.
>>
>> With all due respect, this is a program-specific response.
>> Maybe HE needed to do that, but it does not mean that anyone
>> else has to.
>
>No it is not. There is a field in APRS for the SYMBOL. You CANNOT LEAVE
>IT OUT. If you have an unknown or indeterminant position, then you must
>still put SOMETHING in that SYMBOL field. The definition of a UNKNOWN or
>INDETERMINATE position symbol is provided for that case. There is nothing
>program specific about that.
>
>Bob
>
>

This response shows how easy it is to confuse even familiar terminology
when it is not explicit.

I thought that the reference to "field" was to a data display field in some
APRS program. Bob clearly (after the clarification) meant a field in the
APRS message.

Cheers,

Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 4 11:22:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA04995

for <lyris.aprsspec@tapr.org>; Sat, 4 Mar 2000 11:22:17 -0600 (CST)
Message-ID: <LYR11589-69170-2000.03.04-11.20.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 04 Mar 2000 12:20:48 -0500
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Thanks! [was: unknown or indeterminate position "symbol"]
References: <LYR11610-69141-2000.03.04-01.11.34--
propnet#greeceny.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38C145F0.94A38B04@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> This response shows how easy it is to confuse even familiar
> terminology when it is not explicit. I thought that the
> reference to "field" was to a data display field in some
> APRS program. Bob clearly (after the clarification) meant a
> field in the APRS message.
> Cheers,
> Jim, KA7EHK

Hi Jim,
Ain't it the truth! :o) I was a bit confused myself, but was happy to
see the clarification.

I can't count the number of times that an eMail misunderstanding has
resulted in an unnecessary firestorm (and even gotten sucked into a
couple myself, quite inadvertantly).

It reminds me of a "double translation" that was run on a text file.
The sender couldn't speak Russian, and the intended receiver couldn't
understand English. The sender sent the text through a language
translator. Then, just to be safe, ran the translated text back through
a Russian to English translator. The results were
fascinating...including a phrase that started out as "out of sight, out
of mind" that ended up as "invisible, insane".

Keep smilin' folk! :o)

Warmly,
Ev Tupis, W2EV

--

PropNET: A digital wireless
data network designed to
plot band openings in near
real-time. Intreagued?
<http://go.to/propnet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 6 00:25:45 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA08119
for <lyris.aprsspec@tapr.org>; Mon, 6 Mar 2000 00:25:43 -0600 (CST)
Message-Id: <LYR11589-69386-2000.03.06-00.24.15--
lyris.aprsspec@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 5 Mar 2000 23:25:28 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] DX Spot
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130301b4e8fe70f175@[198.106.196.197]>
<LYR11893-68989-2000.03.03-00.00.43--wagnerj@proaxis.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, all -

I posed this back on Mar 2, and I don't think anyone bit. It does seem to be fairly important because it appears to imply information that is not in the protocol. So, here goes, again:

Symbol "\d" DX Spot by Callsign - what is anticipated here?
A DX symbol with the callsign next to it? Is the callsign
in addition to the callsign of the station originating
the symbol or does it substitute? How is the callsign

specified? I don't see it in the protocol specs anywhere.

The most important issue here is: if it is to have a callsign label (other than the sender's call), how is it specified. Is this really an "object"????

In fact, page 8 carries the following statement which I honestly do not see:

"DX Cluster Reporting - APRS an ideal tool for the DX cluster user. Not only is it possible to see all DX spots on the map, but by operating in the monitor-only mode, the overall packet load on the DX cluster is reduced. This is a benefit to everyone on the channel."

Could someone please explain???

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 6 07:57:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA27222
for <lyris.aprsspec@tapr.org>; Mon, 6 Mar 2000 07:56:58 -0600 (CST)
Message-Id: <LYR11589-69422-2000.03.06-07.55.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
Date: Mon, 6 Mar 2000 07:56:30 -0600
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200003061356.FAA15619@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 3/6/00 12:25 AM Jim Wagner (wagnerj@proaxis.com) wrote:

>Symbol "\d" DX Spot by Callsign - what is anticipated here?
> A DX symbol with the callsign next to it? Is the callsign
> in addition to the callsign of the station originating
> the symbol or does it substitute? How is the callsign
> specified? I don't see it in the protocol specs anywhere.
>

A symbol is just a symbol. Say you are a DX fiend and want to appear as a DX on the map, just enter that symbol. Many versions of APRS have the ability to receive and interpret DX spots on the map, but this protocol is defined by the DX cluster folk, not APRS folk...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 6 08:34:18 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA28293
for <lyris.aprsspec@tappr.org>; Mon, 6 Mar 2000 08:34:17 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 6 Mar 2000 09:33:28 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69386-2000.03.06-00.24.15--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-69427-2000.03.06-08.32.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <Pine.GS0.4.05L.10003060929230.9404-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 5 Mar 2000, Jim Wagner wrote:

> Symbol "\d" DX Spot by Callsign - what is anticipated here?
> A DX symbol with the callsign next to it? Is the callsign
> in addition to the callsign of the station originating
> the symbol or does it substitute? How is the callsign
> specified? I don't see it in the protocol specs anywhere.

"By callsign" in this case means that the position was derived from the international list of callsign locations, and was placed on the map according to that general position, not by any other means. That is why APRS includes a position ambiguity indicator all the way up to the nearest deg (60 miles) or 10 degrees (or 600 miles).

> "DX Cluster Reporting - APRS an ideal tool for the DX cluster user.
> Not only is it possible to see all DX spots on the map, but by operating in
> the monitor-only mode, the overall packet load on the DX cluster is
> reduced. This is a benefit to everyone on the channel."
>
> Could someone please explain???

What dont you understand? Putting DX spots on the maps?
Or how one APRS object packet instead of 50 copies and 50 acks is a
benefit to the channel?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 6 10:12:56 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA01997
for <lyris.aprsspec@tappr.org>; Mon, 6 Mar 2000 10:12:54 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 6 Mar 2000 11:10:56 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69422-2000.03.06-07.55.23--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-69447-2000.03.06-10.10.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003061107470.9404-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 6 Mar 2000, Steve Dimse wrote:

> On 3/6/00 12:25 AM Jim Wagner (wagnerj@proaxis.com) wrote:
>
> >Symbol "\d" DX Spot by Callsign - what is anticipated here?

Steve said:

> A symbol is just a symbol. Say you are a DX fiend and want to appear as a
> DX on the map, just enter that symbol. Many versions of APRS have the
> ability to receive and interpret DX spots on the map, but this protocol
> is defined by the DX cluster folk, not APRS folk...

For another 2 cents, the definition of that "symbol" is a "DX spot whose position was estimated based on its callsign prefix". Nothing more or less than that is implied. If you have DX information that was not gained by the use of the international list of callsign prefixes and the country they belong to, then do not use this symbol. Use any one of the other 350 symbol possibilities as appropriate...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 7 21:16:09 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA29518
for <lyris.aprsspec@tappr.org>; Tue, 7 Mar 2000 21:16:06 -0600 (CST)

X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-69819-2000.03.07-21.14.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 7 Mar 2000 20:14:57 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: DX Spot
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130300b4eb74668588@[198.106.196.123]>
<LYR11893-69616-2000.03.07-00.00.55--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Concerning the following - I did not understand HOW DX "spots" are to be placed on a map, hence how they could be of any use to DX cluster users.

Thanks for the explanation. That answered my question (somewhat). Do I understand properly that "DX Spot" is an object or item symbol?

The following question still remains. How is a country prefix transmitted?
Is it THE OBJECT NAME??

Furthermore, if as Steve says, its NOT part of the APRS protocol, then why is it in the APRS symbol list??????

>> "DX Cluster Reporting - APRS an ideal tool for the DX cluster user.
>> Not only is it possible to see all DX spots on the map, but by operating in
>> the monitor-only mode, the overall packet load on the DX cluster is
>> reduced. This is a benefit to everyone on the channel."
>>
>> Could someone please explain???

>
>What dont you understand? Putting DX spots on the maps?
>Or how one APRS object packet instead of 50 copies and 50 acks is a
>benefit to the channel?
>
>Bob
>

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 7 22:02:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA01142
for <lyris.aprsspec@tapr.org>; Tue, 7 Mar 2000 22:02:14 -0600 (CST)
Message-Id: <LYR11589-69828-2000.03.07-22.00.41--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
Date: Tue, 7 Mar 2000 21:59:48 -0600
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200003080401.UAA22132@harrier.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/7/00 9:14 PM Jim Wagner (wagnerj@proaxis.com) wrote:

>

>Thanks for the explanation. That answered my question (somewhat). Do I
>understand properly that "DX Spot" is an object or item symbol?

>

It is a symbol. It can represent anyone or anything, even a vehicle.

>The following question still remains. How is a country prefix transmitted?

>Is it THE OBJECT NAME??

>

In general, DX spots are transmitted on a DX cluster frequency, using
their own separate protocol. APRS programs that can interpret this

protocol, and correctly place the spots on the map, often use the same icon to display them as the APRS DX icon, but there is absolutely no requirement that they do so. This is a user interface issue, not something covered in the APRS protocol.

If someone were to develop a DX Cluster to APRS gateway, the best way would probably be to turn the DX spots into APRS objects, and use the APRS DX symbol. However, no one has done this to the best of my knowledge. The programs that interpret DX spots do so using the native DX cluster protocol.

>Furthermore, if as Steve says, its NOT part of the APRS protocol, then why
>is it in the APRS symbol list??????

>

You still seem to be hung up on the concept of 'symbol'. A symbol is simply a bitmap that gets drawn on the screen of a user's computer at the request of another station. By convention, certain symbols have certain meanings, but they are not necessarily markers for particular protocol types.

So any station may choose to display on users' maps as a DX. If my name was Dimitri Xavier I might be particularly enamored of it. I could use it driving around in my truck if I wanted to. If I was a DX hound, I very well might like to use it for my home station as a "vanity" icon. I'm not a DX hound, I use a Macintosh computer, so often I use the Apple symbol, I live on an island so when I'm in the Keys I use the IOTA symbol. My Mac icon does not mean that I transmitted my position in a Macintosh protocol, only that I chose that symbol to represent my position. The IOTA symbol does not mean I transmitted an IOTA position format. Anyone can choose any symbol they want, though there are certain conventions, such as the star for digipeaters.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 7 22:43:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA02251
for <lyris.aprsspec@tapr.org>; Tue, 7 Mar 2000 22:43:35 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 7 Mar 2000 23:42:39 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69819-2000.03.07-21.14.35--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-69843-2000.03.07-22.42.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10003072339080.11846-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 7 Mar 2000, Jim Wagner wrote:

> Thanks for the explanation. That answered my question (somewhat). Do I
> understand properly that "DX Spot" is an object or item symbol?
Yes

> The following question still remains. How is a country prefix transmitted?
> Is it THE OBJECT NAME??

It is not transmitted. You use a local database built into all versions
of APRS that support this function...

> Furthermore, if as Steve says, its NOT part of the APRS protocol, then why
> is it in the APRS symbol list??????

The symbol IS in the protocol.
DX spot decoding is in Mac/WIn/APRSDos and others, and all kenwood
products if it is not in the APRS spec, then it is a serious omission from
the spec that should be fixed...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 8 08:30:47 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA02416
for <lyris.aprsspec@tappr.org>; Wed, 8 Mar 2000 08:30:42 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 8 Mar 2000 09:29:24 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69828-2000.03.07-22.00.41--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-69883-2000.03.08-08.28.27--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003080919090.14407-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 7 Mar 2000, Steve Dimse wrote:

> >Do I understand properly that "DX Spot" is an object or item symbol?
> >
> It is a symbol. It can represent anyone or anything, even a vehicle.

We may be having a symantics problem here. I agree with Steve that we can plot any DX station on the map using any of the hundreds of APRS symbols, but the symbol identified in the SYMBOL.TXT file as a "DX SPot by callsign" should only be used to indicate a "DX-Spot-placed-on-the-map-in that-location-using-the-process-of-callsign-prefix-database-lookup".

It should not be used except in accordance with its definition. Probably what we need then is a more general "DX" Icon also that can be used freely by anyone at anytime to indicate anything they want about "DX"...

I think this would solve this issue..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 09:05:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03660
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 09:05:04 -0600 (CST)
Message-Id: <LYR11589-69894-2000.03.08-09.03.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
Date: Wed, 8 Mar 2000 09:03:19 -0600
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200003081503.HAA16545@gull.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/7/00 10:42 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>> Furthermore, if as Steve says, its NOT part of the APRS protocol, then why
>> is it in the APRS symbol list??????

>

>The symbol IS in the protocol.

>DX spot decoding is in Mac/WIn/APRSdos and others, and all kenwood
>products if it is not in the APRS spec, then it is a serious omission from
>the spec that should be fixed...

>

I disagree. The DX cluster protocol was not developed by APRS authors, is
not maintained by APRS authors, and does not belong in the APRS protocol
document. Any APRS program or device is certainly free, and even
encouraged, to support other protocols, but they do not belong in the
APRS spec.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 8 11:02:21 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA07582
for <lyris.aprsspec@tappr.org>; Wed, 8 Mar 2000 11:02:19 -0600 (CST)
Message-ID: <LYR11589-69908-2000.03.08-11.00.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 8 Mar 2000 09:01:58 -0800 (PST)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Re: DX Spot
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20000308170158.20973.qmail@web901.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Ok, I understand Steve's assertion that "DX Spot" symbol
can be used as a vanity symbol, just like MacAPRS, etc.
I don't see any problem, there.

What does confuse me, and continues to, is the terminology
in the (draft) spec symbol table:

"DX Spot with callsign"

The term "with callsign" is not used with any other symbol.
Thus, there must be something special here.

WHAT IS IT???

Thanks,
Jim, KA7EHK

Do You Yahoo!?
Talk to your friends online with Yahoo! Messenger.
<http://im.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 11:32:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA08372
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 11:32:31 -0600 (CST)
Message-ID: <LYR11589-69915-2000.03.08-11.31.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 8 Mar 2000 17:30:50 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Using Mic-E on HF: The MICENC program
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <k1NzZlAK5ox4Ew3V@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have just completed writing a new program that encodes Mic-E data for manual input to a TNC. This will be particularly useful in HF APRS, allowing the use of much shorter packets than normal.

Here is an extract from the documentation:

=====
MIC-E PACKET ENCODER
=====

Mic-E format is one of the formats that APRS uses to compress position, course, speed and other information into very short packets. This can be specially helpful in HF, satellite and meteor scatter communications, where received signals are often weak and deep in the noise. Clearly, the shorter the packet, the greater the chance that it will be received successfully.

In the extreme, Mic-E formatted packets can be as short as 27 bytes (plus flags). See the APRS Protocol Specification for full details of how this is achieved -- the current release of the specification is draft version 1.0.1g, dated 3 December 1999, available at <http://www.tapr.org/tapr/html/Faprswg.html>.

Traditionally, Mic-E formatted packets are generated by firmware, in units such as the Mic Encoder and PIC Encoder, and also in the Kenwood TH-D7 and TM-D700 radios. However, it is also possible to transmit Mic-E packets using just a plain TNC and radio, without any special Mic-E firmware. The trick is to encode all the required position and other information into suitable UNPROTO and BTEXT commands. Doing this by hand is a lengthy and error-prone job, so the MICENC program was written to automate the process.

=====

MICENC Features

=====

The MICENC program encodes a station's position and related information into Mic-E format, suitable for entering into a TNC as UNPROTO and BTEXT command strings.

The input data includes:

- * Latitude (with position ambiguity if required)
- * Longitude
- * Message Code (for Standard, Custom and Emergency messages)
- * Speed
- * Course
- * Symbol Code (with overlay where permitted)

The program outputs the:

- * 6-character UNPROTO string (AX.25 Destination Address), containing the encoded latitude, message code, N/S indicator, W/E indicator and longitude offset.
- * 9-character BTEXT (AX.25 Information field), containing the encoded longitude, speed, course and symbol code.

While most BTEXT strings will contain printable ASCII characters, some will not. MICENC highlights unprintable characters -- unfortunately most TNCs will not accept such characters as input. (Note: This is a TNC restriction. Mic-E compatible firmware will handle all valid Mic-E characters, whether printable ASCII or not).

MICENC also supports keyboard/display logging to disk, allowing the data to be examined at a later date.

MICENC is available from <http://www.netro.co.uk/aprs.html>

Keyboard/Display Dialog

When entering data, the MICENC keyboard/display dialog looks something like this:

```
~~~~~  
Latitude (e.g. 1234.56N) or 'Enter' to quit: 5157.96N  
.....Longitude (e.g.12345.67W): 00029.39W  
.....Message Type (M=Std, C=Cust, E=Emerg): M  
.....Message Code (0-6): 2  
.....Speed IN MPH (0-920): 0  
.....Course (0-360): 4  
.....Symbol Table (P=Primary, A=Alternate): A  
.....Symbol Code (1-94): 13  
~~~~~
```

```
MESSAGE = /M2/In Service SPEED = 0 knots  
SYMBOL = House HF          OVERLAY = (none)
```

```
cmd: UNPROTO U1UWYV  
cmd: BTEXT `v9C1  -/  
      123456789
```

```
1=digit one  l=lower-case L  I=letter I  0=digit zero  O=letter O  
~~~~~
```

The first section shows the input of the station's latitude, longitude, message (standard, custom or emergency), speed, course and symbol code (from the Primary or Alternate Symbol table). The program understands position ambiguity and symbol overlays.

The second section plays back the message, the speed in knots and the symbol/overlay in plain English, then displays the UNPROTO and BTEXT strings that correspond to the input data.

The digits 1-9 underneath the BTEXT string show the character positions -- this is a useful guide when typing the string into the TNC.

The last line of this section is simply for information, highlighting the differences between some of the characters that look very similar to each other.

In some cases the BTEXT string will contain non-printable ASCII characters. Unfortunately most TNCs will not accept these characters as BTEXT input. MICENC highlights them by displaying their character positions and hex codes. For example:

```
~~~~~  
cmd: BTEXT ` (>l >/  
      123456789  
***** WARNING: Unprintable ASCII char(s)  
Char #2 0x7F
```


Char #7 0x1C

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net       |
|                               |                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 12:57:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11077
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 12:57:06 -0600 (CST)
Message-Id: <LYR11589-69952-2000.03.08-12.55.36--
lyris.aprsspec@tapr.org>
X-Sender: vodall@wa7nwp.dynip.com
Date: Wed, 08 Mar 2000 10:56:09 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall <Vodall@bigsky.com>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11629-69908-2000.03.08-11.00.53--wa7nwp#bigsky.com@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3.0.5.32.20000308105609.009ea100@wa7nwp.dynip.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>The term "with callsign" is not used with any other symbol.

>Thus, there must be something special here.
>
>WHAT IS IT???
>
>Thanks,
>Jim, KA7EHK

Hi Jim,

Soon I'll have a better location here in Redmond. When I do, I'll be monitoring the DX Cluster folks frequency and develop some technology to cross post the objects to APRS. Since a DX spot for, for example, KA7EHK, doesn't have Lat/Long information, I'll have to get that from a callbook database - by callsign. These spots will use the "by callsign" object.

73,
Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 17:40:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20570
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 17:40:22 -0600 (CST)
Date: Wed, 8 Mar 2000 17:39:57 -0600 (CST)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-69991-2000.03.08-17.38.56--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11595-69819-2000.03.07-21.14.35--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200003082339.RAA85070@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Tue, 7 Mar 2000 20:14:57 -0700
> From: Jim Wagner <wagnerj@proaxis.com>

> Subject: [aprsspec] Re: DX Spot
> [...]
> Furthermore, if as Steve says, its NOT part of the APRS protocol, then why
> is it in the APRS symbol list??????
> [...]

This may simply be an artifact of the ongoing difference of opinion about whether the APRS spec is a protocol specification or a protocol specification plus some other stuff like user interface recommendations or specifications.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 21:53:51 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA28292
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 21:53:50 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 8 Mar 2000 22:53:27 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69894-2000.03.08-09.03.43--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-70017-2000.03.08-21.52.25--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10003082247290.2189-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 8 Mar 2000, Steve Dimse wrote:

> I disagree. The DX cluster protocol was not developed by APRS authors, is
> not maintained by APRS authors, and does not belong in the APRS protocol

> document. Any APRS program or device is certainly free, and even
> encouraged, to support other protocols, but they do not belong in the
> APRS spec.

We are not talking about the DX cluster protocol which is a very complex protocol. We are talking about the fact that APRS adopted the single line format for a DX spot (and only that) as part of its protocol. Because of this, Kenwood and APRSdos and Mac/WIn and maybe others then could all depend on the invariance of that definition to build to that common single line format.

To me, the recognition of the fact that APRS has adopted that single line format (APRS is a single-line-formatted-protocol) should be mentioned in the spec, just as we have delineated that APRS expects to parse a certain minimum subset of similar NMEA sentences.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 8 22:07:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA28807
for <lyris.aprsspec@tapr.org>; Wed, 8 Mar 2000 22:07:17 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 8 Mar 2000 23:06:58 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: DX Spot
In-Reply-To: <LYR11586-69908-2000.03.08-11.00.53--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-70020-2000.03.08-22.05.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003082304440.2189-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Maybe our messages crossed, but I explained that in great detail in 2 previous messages.

Further, I disagree with steve. It is not a general purpose DX icon. It is very specific in its use and means only the one thing. I DO AGREE, that this disucussion has revealed the need for a more general purpose "DX" ICON that can be used more indiscriminantly.

Bob

On Wed, 8 Mar
2000, James Wagner wrote:

> Ok, I understand Steve's assertion that "DX Spot" symbol
> can be used as a vanity symbol, just like MacAPRS, etc.
> I don't see any problem, there.
>
>
> What does confuse me, and continues to, is the terminology
> in the (draft) spec symbol table:
>
> "DX Spot with callsign"
>
> The term "with callsign" is not used with any other symbol.
> Thus, there must be something special here.
>
> WHAT IS IT???

>
> Thanks,
> Jim, KA7EHK
>
>
>
>
> -----
> Do You Yahoo!?

> Talk to your friends online with Yahoo! Messenger.
> <http://im.yahoo.com>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 10 13:49:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA11958
for <lyris.aprsspec@tapr.org>; Fri, 10 Mar 2000 13:49:14 -0600 (CST)
Message-Id: <LYR11589-70301-2000.03.10-13.47.51--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] APRS WG Resignation
Date: Fri, 10 Mar 2000 13:48:15 -0600
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200003101948.LAA09515@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Just to let everyone know, I have resigned my position in the APRS Working Group. If anyone has any desire to take my position, or has someone they think should be invited to join, I would suggest you contact the remaining members with your ideas.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 10 15:21:03 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA15007
for <lyris.aprsspec@tappr.org>; Fri, 10 Mar 2000 15:21:03 -0600 (CST)
Message-Id: <LYR11589-70317-2000.03.10-15.19.29--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: APRS WG Resignation
Date: Fri, 10 Mar 2000 15:20:10 -0600
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200003102120.NAA24966@gull.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I can see from the first 10 emails I've received I need to clarify this a little.

I am not leaving APRS, just the APRS Working Group. My database and XML projects will continue. The APRServe system will remain as it is.

Bob has accused me of being "anti-Bob" and impeding the progress of the APRSWG. I do not agree, I believe that my objections to protocol issues are based on my informed opinion, not personality. I do not feel Bob is "anti-Steve", I think he is arguing points based on his vision of APRS, and that we just differ greatly in our visions.

However, I recognize it is hard to be objective about such things. The fact is most discussions on the WG mailing list ended up being arguments between Bob and myself. We both have strong opinions, and neither of us is likely to change our minds. I do not want to be the person deciding the future of APRS, so perhaps it is best I stop trying to promulgate my vision. I do believe the APRSWG is important to the future of APRS, and that if you care about the future of APRS, you should contact members of the APRSWG with suggestions of who you would like to see included.

Long time APRSers know that I had specifically asked to be excluded from the APRSWG when it was formed. I was talked into joining by a number of other authors. I desperately wanted to see the WG formed, APRS opened up to other authors, and a protocol document produced. This has all happened, with the resulting protocol document being far better than I dreamed, thanks to the unexpected involvement of Ian Wade. His efforts produced an outstanding document, and I want to publicly thank him for

this effort. Had he not signed on, and put out an enormous effort, the document might still not have been released. The whole APRS community owes Ian a huge debt.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 12 11:46:17 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA02620
for <lyris.aprsspec@tapr.org>; Sun, 12 Mar 2000 11:46:17 -0600 (CST)
Message-ID: <LYR11589-70642-2000.03.12-11.45.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 12 Mar 2000 17:43:27 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] X1J digis
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Lwzo40A\$c9y4Ewbj@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I understand that X1J digis send a fixed string at the beginning of the data, so that the "!" APRS Data Type Identifier may be shifted from its usual first character position (by up to 39 characters).

Can someone please tell me the nature of the X1J fixed string. What data does it contain? What characters can it contain? Must not contain? Examples?

I'm working on an APRS decoder program, and I need to know how to unambiguously recognize (and ignore) X1J strings.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--


```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 12 17:58:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15416
for <lyris.aprsspec@tapr.org>; Sun, 12 Mar 2000 17:57:58 -0600 (CST)
From: "Rob Wittner" <rmw@rwa-inc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: X1J digis
Date: Sun, 12 Mar 2000 18:59:49 -0500
Message-ID: <LYR11589-70684-2000.03.12-17.56.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
In-Reply-To: <LYR11697-70642-2000.03.12-11.45.00--rmw#rwa-inc.com@lists.tapr.org>
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NCBBLCALKLCLLFGBMFCMMENFDEAA.rmw@rwa-inc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> I'm working on an APRS decoder program, and I need to know
> how to unambiguously recognize (and ignore) X1J strings.

I'm not sure if this is the best way to do it, but in APRS/CE, I have the
main parsing routine check the incoming data for all "well-defined" strings.
The last thing it checks is for any '!' in up to the 40th position. For
each one it finds, it calls the posit parsing routine with that portion of

the string. If the posit parser fails to find a valid posit string, the whole string is treated as a status packet.

(Did that make sense?)

-Rob
KZ5RW

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 14 22:51:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA04536
for <lyris.aprsspec@tapr.org>; Tue, 14 Mar 2000 22:51:29 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 14 Mar 2000 23:50:48 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] GOING DIGITAL!
In-Reply-To: <LYR11586-70317-2000.03.10-15.19.29--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-71108-2000.03.14-22.50.14--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10003142341010.24430-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Authors,

You may have seen my uninvited musings about PACKET and the loss of the ability of many hams to even be able to hook up a TNC anymore. I rambled and sort of implied that anything digital is better than nothing.

What this leads me to here, is to wonder if we should not have specified

in the APRS spec, what an APRS station does when it receives a CONNECT REQUEST?

APRSDos clears the screen and puts you straight into a dumb terminal window. Thus, you can respond to someone else who only connected to you conventionally. I know some of you object to putting "operating" stuff in the spec.... But would it make sense to be part of the spec to suggest that APRS software should facilitate backwards compatibility to dumb terminal connectivity?

I'd lean that way...

But conversely, I would shy from any further snobballing such as to encourage file-transfer. That is a NO-NO on an APRS channel. But I think we kinda agree that KEYBOARD activity is tolerable for the purpose of temporary communications...?

This is not a call for action... Just a thought about what your software does when someone connects to it...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 15 01:26:52 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA15892
for <lyris.aprsspec@tapr.org>; Wed, 15 Mar 2000 01:26:46 -0600 (CST)
Message-Id: <LYR11589-71151-2000.03.15-01.25.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 15 Mar 2000 00:26:07 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: GOING DIGITAL
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130300b4f4eb2d07f1@[198.106.196.86]>
<LYR11893-71123-2000.03.15-00.00.32--wagnerj#proaxis.com@lists.tapr.org>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob's comments are worth while. We really do need to consider a variety of non-APRS situations in our applications, and this is certainly one.

Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 15 07:48:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA04422
 for <lyris.aprsspec@tapr.org>; Wed, 15 Mar 2000 07:48:58 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-71213-2000.03.15-07.47.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 15 Mar 2000 08:44:00 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Re: GOING DIGITAL!
Cc: aprsspec@lists.tapr.org
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <v04205513b4f543ef235b@[165.230.133.70]>
 <LYR11588-71108-2000.03.14-22.50.14--ksproul#vger.rutgers.edu@lists.tapr.org>
 <LYR11588-71108-2000.03.14-22.50.14--ksproul#vger.rutgers.edu@lists.tapr.org>

rg>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

WinAPRS/MacAPRS recognizes the connect and sends a message saying that it doesn't accept connects, and then disconnects..

Keith Sproul

>Authors,
>
> You may have seen my uninvited musings about PACKET and the loss of the
>ability of many hams to even be able to hook up a TNC anymore. I rambled
>and sort of implied that anything digital is better than nothing.
>
>What this leads me to here, is to wonder if we should not have specified
>in the APRS spec, what an APRS station does when it receives a CONNECT
>REQUEST?
>
>APRSDos clears the screen and puts you straight into a dumb terminal
>>window. Thus, you can respond to someone else who only connected to you
>conventionally. I know some of you object to putting "operating" stuff
>in the spec.... But would it make sense to be part of the spec to suggest
>that APRS software should facilitate backwards compatibility to dumb
>terminal connectivity?
>
>I'd lean that way...
>
>But conversly, I would shy from any further snoballing such as to
>encourage file-transfer. That is a NO-NO on an APRS channel. But I think
>we kinda agree that KEYBOARD activity is tollerable for the purpose of
>temporary communications...?
>
>This is not a call for action... Just a thought about what your software
>does when someone connects to it...
>
>Bob
>
>
>
>---
>You are currently subscribed to aprsspec as: ksproul@vger.rutgers.edu
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Keith Sproul	732 445-3695 Office
Student Housing Network Coordinator	732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu	732 821-4828 Home

<http://dorm.rutgers.edu/~ksproul/> WU2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 13:50:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA17554
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 13:50:36 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 14:50:05 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] MACH SPeeds
In-Reply-To: <LYR11586-70020-2000.03.08-22.05.55--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-71920-2000.03.18-13.49.30--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10003181438400.3392-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve made some good suggestions about my Satellite OObjects. I now only uplink them as objects when they are in view, and I kill them when they go below the horizon.

The one other suggestion by Steve was to modify the APRS Speed field to accomodate orbital speeds. The primary reason is so that the objects can be properly dead reckoned. This is important since my one minute objects will not all get through... And if everyone dead reckons them properly, then I dont even need to sustain a 1 minute rate and can drop back to 2 minutes!

One EASY way to do this is to simply define all speeds aboove 975 knots to be converted to MACH numbers by subtracting 974. Thus 976 is for example MACH 2 and 999 is MACH 25 which is the speed of orbiting satellites. The ONLY place to make this conversion is in the DEAD-RECKONING routine. Just let the CSE/SPD vector still be interpreted as 999.

I'll look up the exact conversion for MACH numbers in KTS and will advise on monday. Or we could make the cut off be at 900 and then we can express speeds in terms of quarter-MACH numbers to give higher precision... Which I doubt we will EVER need..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 14:10:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18272
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 14:10:39 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-71925-2000.03.18-14.09.41--
lyris.aprsspec@lists.tapr.org>
Date: Sat, 18 Mar 2000 15:12:02 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-71920-2000.03.18-13.49.30--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D3E312.BDE3F3C5@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Before you go spending alot of time on this, there already exists orbital prediction programs that can do a far better job then the system you are suggesting.

-Jeff

Bob Bruninga wrote:

> Steve made some good suggestions about my Satellite Objects. I now only
> uplink them as objects when they are in view, and I kill them when they go
> below the horizon.

>

> The one other suggestion by Steve was to modify the APRS Speed field to
> accomodate orbital speeds. The primary reason is so that the objects can
> be properly dead reckoned. This is important since my one minute objects
> will not all get through... AND if everyone dead reckons them properly,
> then I dont even need to sustain a 1 minute rate and can drop back to 2
> minutes!

>

> One EASY way to do this is to simply define all speeds aboove 975 knots to
> be converted to MACH numbers by subtracting 974. Thus 976 is for example
> MACH 2 and 999 is MACH 25 which is the speed of orbiting satellites.
> The ONLY place to make this conversion is in the DEAD-RECKONING routine.
> Just let the CSE/SPD vector still be interpreted as 999.

>

> Ill look up the exact conversion for MACH numbers in KTS and will advise
> on monday. Or we could make the cut off be at 900 and then we can express
> speeds in terms of quarter-MACH numbers to give higher precision... Which
> I doubt we will EVER need..

>

> Bob

>

> ---

> You are currently subscribed to aprsspec as: jeff@aerodata.net

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 14:22:15 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18653

for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 14:22:12 -0600 (CST)

Message-ID: <LYR11589-71926-2000.03.18-14.21.16--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Steve Sampson" <ssampson@usa-site.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR11601-71920-2000.03.18-13.49.30--jeff#aerodata.net@lists.tapr.org>

<LYR13439-71925-2000.03.18-14.09.41--ssampson#usa-site.net@lists.tapr.org>

Subject: [aprsspec] Re: MACH SPeeds

Date: Sat, 18 Mar 2000 14:22:33 -0600
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001201bf9117\$b173e0e0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

No, I don't expect you will see more than a couple of hits on
APRS, so orbital prediction is overkill.

----- Original Message -----

> Before you go spending alot of time on this, there already exists
> orbital prediction programs that can do a far better job then the system you
> are suggesting.
>
> -Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 18 14:29:23 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18866
for <lyris.aprsspec@tappr.org>; Sat, 18 Mar 2000 14:29:19 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-71927-2000.03.18-14.28.22--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 18 Mar 2000 15:30:53 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-71920-2000.03.18-13.49.30--jeff#aerodata.net@lists.tapr.org>
<LYR13439-71925-2000.03.18-14.09.41--ssampson#usa-site.net@lists.tapr.org>
<LYR11601-71926-2000.03.18-14.21.16--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D3E77D.1B3B81C8@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I disagree. You need orbital prediction.

I was just suggesting their were already programs out there that could do this in a far better manner then what was being suggested.

-Jeff

Steve Sampson wrote:

> No, I don't expect you will see more than a couple of hits on
> APRS, so orbital prediction is overkill.
>
> ----- Original Message -----
>
> > Before you go spending alot of time on this, there already exists
> > orbital prediction programs that can do a far better job then the system you
> > are suggesting.
> >
> > -Jeff
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 18:06:20 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25955
for <lyris.aprsspec@tappr.org>; Sat, 18 Mar 2000 18:06:18 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 19:05:35 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D3E312.BDE3F3C5@aerodata.net>
Message-ID: <LYR11589-71943-2000.03.18-18.05.21--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003181859200.6785-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 18 Mar 2000, Jeff King wrote:

> Before you go spending alot of time on this, there already exists
> orbital prediction programs that can do a far better job then the system you
> are suggesting.

Yes, APRStk is one of them. It can predict position and velocity of a
satellite to within about 1 degree in AZ/EL. But I would say that less
than 1 percent of THD7 HT users or D700 users have a PC with them in
their pocket or in their mobile.

My uplinking as objects of the 7 amateur satellites that are
workable by a THD7 or D700 is a way to let those users see where the birds
are without having to bother with a PC.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 18 18:12:45 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26137
for <lyris.aprsspec@tappr.org>; Sat, 18 Mar 2000 18:12:43 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 19:12:10 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <LYR11586-71926-2000.03.18-14.21.16--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-71946-2000.03.18-18.11.47--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10003181908280.6785-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

What are you talking about "hits"?

What we are talking about is uplinked Satellite objects need to have a realistic speed in their posit packet so that they can be deadreckoned on off the map if for some reason a follow on packet never arrives. We anticipate using digipeated POSITS for most of the amateur satellties includeing the ISS. None of the existing satellites have GPS, so one of the purposes of APRStk is to digipeat 3rd party posits for these satellites so that ground users SEE a posit and vector on their maps.

We used this during all the APRS/MIR experiments in 1998 and 1999. AND we will use it for any other APRS satellite. And we are using it daily in our locally uplinkied objects here to keep locals informed of passing birds...

bob

On Sat, 18 Mar 2000, Steve Sampson wrote:

> No, I don't expect you will see more than a couple of hits on
> APRS, so orbital prediction is overkill.
>
> ----- Original Message -----
>

> > Before you go spending alot of time on this, there already exists
> > orbital prediction programs that can do a far better job then the system you
> > are suggesting.
> >
> > -Jeff
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tappr.org/tappr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 18 18:31:25 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26686
for <lyris.aprsspec@tappr.org>; Sat, 18 Mar 2000 18:31:23 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 19:31:08 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] THD7 Position ambiguity
In-Reply-To: <LYR11586-71946-2000.03.18-18.11.47--
bruninga@nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-71951-2000.03.18-18.30.27--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10003181924050.6785-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Now that Position ambiguity is in the SPEC and is built into APRSdos, WinAPRS, APRS+SA and the D700, I think it is time to consider permitting it for THD7 users as well.

This is easy to do and has been built into APRSdos since the THD7 came out. Even if we do not codify it in the spec, other authors should consider implementing it.

Simply, any posit from a THD7 that ends in xxxx.00N/xxxxx.00W can be assumed to be ambiguous to the nearest minute. This assumption has a 99.99% chance of being the correct assumption.

The power of this, is that it lets handheld users of the THD7 keyboard in a POSIT at work and home and some favorite local places without having to carry a GPS unit everywhere he goes. And he will show up on the map as ambiguous to within a half mile of that location. Thus you can see about where he is for message purposes, but can also see at a glance that he is not using a GPS for precision...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 19:22:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA28283
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 19:22:20 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 20:20:07 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <LYR11586-71946-2000.03.18-18.11.47--bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-71954-2000.03.18-19.19.42--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003182018390.6785-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 18 Mar 2000, Bob Bruninga wrote:

> What are you talking about "hits"?
> What we are talking about is uplinked Satellite objects need to have a

I didn't mean for that to sound argumentative.
I was asking what kind of "hits" you were talking about, so I could understand the thread...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 19:37:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA28742
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 19:37:49 -0600 (CST)
Message-ID: <LYR11589-71956-2000.03.18-19.36.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Tj Johnston" <n4uyq@arrl.net>
From: "Tj Johnston" <n4uyq@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] To substitute or not to substitute... DIGI is the question
Date: Sat, 18 Mar 2000 20:36:22 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <003701bf9143\$891738a0\$f02b8ad1@tjjohnstonmindspring.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

During a recent test of the APRSdigi software I encountered a situation I dont know what to do with. I send it to the list in hopes of finding an answer.

Here is the received packet, which I heard direct from KE4KLD....
KE4KLD>APRSM,KF4HJW-10,WIDE3-3/0:=3719.31N/07719.00WMPHG5192/MacAPRS
3.2.6 -VA-CH_ENON -326-<04b>

APRSdigi sees that KF4HJW-10 does not have the * to indicate that it digipeated it.. so it basically just ignores it.

Should I ignore it by APRS digi standards, or should I digipeat it?

Thoughts:

I could HOLD the packet, and If I dont hear it digipeated in say 30 seconds... I could then assume that

1) I cant hear KF4HJW-10

or

2) KF4HJW-10 never repeated it for some reason (not heard, garbled, etc...)

Should I digipeat it then??? and If so.. should I change the original path, or not, and if so... in what way?

=====
Tj Johnston, N4UYQ ICQ#3134626
Hopewell, VA - Prince George Co. ARES/RACES
Eastern Virginia APRS Group (EVA) - Sec/Treas.
EVA Homepage: <http://www.qsl.net/eva/>
APRSdigi Homepage: www.qsl.net/n4uyq/aprsdigi.htm
=====

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 19:44:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA29010
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 19:44:55 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-71957-2000.03.18-19.43.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 18 Mar 2000 20:46:27 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-71943-2000.03.18-18.05.21--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D43173.9397F9E2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Sat, 18 Mar 2000, Jeff King wrote:
>
> > Before you go spending alot of time on this, there already exists
> > orbital prediction programs that can do a far better job then the system you
> > are suggesting.
>
> Yes, APRStk is one of them.

This is the first I have seen of this on APRSSPEC.. Is it using Keplerian elements like the other satellite tracking programs?

If not, there is some source code code on the www.amsat.org site that could help you here.

> But I would say that less
> than 1 percent of THD7 HT users or D700 users have a PC with them in
> their pocket or in their mobile.

I didn't realize these devices could do dead reckoning. Remember, you were suggesting sending satellite velocity over the air, when in fact there is no need to do this if a device is smart enough to do some calculations on its own.

Do the Kenwood boxes have the ability to do dead reckoning?

> My uplinking as objects of the 7 amateur satellites that are
> workable by a THD7 or D700 is a way to let those users see where the birds
> are without having to bother with a PC.

Thats fine. What does this have to do with "Mach numbers" and once again kludging a spec that has yet to be released?

-Jeff

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 19:47:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA29080
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 19:47:35 -0600 (CST)
Message-ID: <LYR11589-71958-2000.03.18-19.46.36--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <Pine.GSO.4.05L.10003181908280.6785-100000@arctic>
Subject: [aprsspec] Re: MACH SPeeds
Date: Sat, 18 Mar 2000 19:47:25 -0600
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <001801bf9145\$1376ffc0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

When I first read the message, I imagined you were talking about a satellite passing through your listening view area. You might receive one packet (hit) closing in, and one packet opening out.

----- Original Message -----

> What are you talking about "hits"?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 18 20:09:42 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA29983
for <lyris.aprsspec@tappr.org>; Sat, 18 Mar 2000 20:09:41 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 21:09:23 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D43173.9397F9E2@aerodata.net>
Message-ID: <LYR11589-71961-2000.03.18-20.08.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003182101460.8444-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 18 Mar 2000, Jeff King wrote:

> > > Before you go spending alot of time on this, there already exists

> > > orbital prediction programs that can do a far better job then the system you
> > > are suggesting.
> >
> > Yes, APRStk is one of them.
>
> This is the first I have seen of this on APRSSPEC.. Is it using Keplerian
elements
> like the other satellite tracking programs?

Yes. Its been out for a few months and talked about quite a bit on the
SIGS. It not only tracks the satellites, but also QSY's the kenwoods for
automatic operation with these 7 satellites and tunes for doppler..

> > But I would say that less than 1 percent of THD7 HT users or D700
> > users have a PC with them in their pocket or in their mobile.
>
> I didn't realize these devices could do dead reckoning. Remember, you
> were suggesting sending satellite velocity over the air, when in fact
> there is no need to do this if a device is smart enough to do some
> calculations on its own.

Sorry, they cannot. But these objects show on everyones APRS maps,
and if you dont DR them, then they become stagnant erroneous plots.

> Thats fine. What does this have to do with "Mach numbers" and once again
> kludging a spec that has yet to be released?

We need a means in APRS to specify velocities greater than 999 knots. In
this case, 17,500 MPH to apply to amateur satellites for example.
Allowing speed values in excess of 975 be translated into Mach numbers
was just an idea to allow for specifying the full range of speeds that
might apply to APRS objects that would be backwards compatible to all
existing software...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 20:11:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00161
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 20:11:55 -0600 (CST)
Errors-To: <jeff@aerodata.net>

Message-ID: <LYR11589-71962-2000.03.18-20.10.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 18 Mar 2000 21:13:21 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-71920-2000.03.18-13.49.30--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D437C1.3AAB2C2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> The one other suggestion by Steve was to modify the APRS Speed field to
> accomodate orbital speeds. The primary reason is so that the objects can
> be properly dead reckoned. This is important since my one minute objects
> will not all get through... AND if everyone dead reckons them properly,
> then I dont even need to sustain a 1 minute rate and can drop back to 2
> minutes!

OK, I looked into APRStk, and indeed it uses Keplerian elements. So it
is able to transmit (and see) a exact satellite position report and has no need
for dead reckoning.

Now, there are plenty of freeware satellite tracking programs, so anyone with
a computer (and who doesn't run APRStk) could use those and get much better
results then any kind of attempt at 3 dimensional dead reckoning.

So anyone running a computer, can run a satellite tracking program, and really
has no need to get posits over the air.

So that leaves stupid trackers, like the Kenwood products. Now I see no
reference if these do "dead reckoning" on the Kenwood Web page. Even if
they did, I'm sure this 2 dimnshional version of dead reckoning, which doesn't
recognize anything over 999 mph, and even if it did, would do a poor job

with anything that wasn't on the surface of the earth.

So why again are you suggesting the APRS protocol be modified?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 20:13:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00235
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 20:13:36 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 21:12:50 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <LYR11586-71958-2000.03.18-19.46.36--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-71963-2000.03.18-20.12.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003182110190.8444-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 18 Mar 2000, Steve Sampson wrote:

> When I first read the message, I imagined you were talking about
> a satellite passing through your listening view area. You might
> receive one packet (hit) closing in, and one packet opening out.

Oh, I see. No, I guess since I have been running APRStk, I keep my map
on the 2048 mile range so I can see all satellites above my horizon, and
anyone's APRS packets that may be relayed by the satellites. I still zoom

in locally if anything happens there too...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 20:22:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00400
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 20:22:36 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 18 Mar 2000 21:22:02 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D437C1.3AAB2C2@aerodata.net>
Message-ID: <LYR11589-71965-2000.03.18-20.21.32--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10003182114060.8444-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 18 Mar 2000, Jeff King wrote:

> So anyone running a computer, can run a satellite tracking program, and
> really has no need to get posits over the air.

Yep.

> So that leaves stupid trackers, like the Kenwood products. Now I see no
> reference if these do "dead reckoning" on the Kenwood Web page. Even if
> they did, I'm sure this 2 dimensional version of dead reckoning, which doesn't
> recognize anything over 999 mph, and even if it did, would do a poor job
> with anything that wasn't on the surface of the earth.

>

> So why again are you suggesting the APRS protocol be modified?

Because it does not allow for Speeds of Orbiting APRS stations of which there are and will be many. We allowed for their altitude in the PHG equations, but overlooked their speeds.

Most MOBILE, PORTABLE and HANDHELD units don't have PC's with them. It is useful to them to post OBJECTS showing them the position of satellites that they can work. Such objects are moving stations, and as such need a realistic CSE/SPD vector.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 20:23:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00418
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 20:23:00 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-71966-2000.03.18-20.22.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 18 Mar 2000 21:23:08 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH Speeds
References: <Pine.GS0.4.05L.10003182101460.8444-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D43A0B.BEBC76FB@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

OK, I just sent something else out.

Bob Bruninga wrote:

> > > But I would say that less than 1 percent of THD7 HT users or D700
> > > users have a PC with them in their pocket or in their mobile.
> >
> > I didn't realize these devices could do dead reckoning. Remember, you
> > were suggesting sending satellite velocity over the air, when in fact
> > there is no need to do this if a device is smart enough to do some
> > calculations on its own.
>
> Sorry, they cannot.

Well, I don't understand why you want to modify the protocol then?
It won't benefit the stupid trackers at all.

> But these objects show on everyone else's APRS maps,
> and if you don't DR them, then they become stagnant erroneous plots.

Maps??? As in they are running a computer? They would be a lot better
off, the radio channel would be a lot better off, if they just ran a freeware
tracking program on their computer.

> > That's fine. What does this have to do with "Mach numbers" and once again
> > kludging a spec that has yet to be released?
>
> We need a means in APRS to specify velocities greater than 999 knots.

I've yet to see a compelling reason why this is needed. Let me remind you
version 1.0 of the spec has yet to be released. Maybe for APRS version
2.0? I've just not seen that many hams in hypersonic vehicles (well, at least
recently).

> In
> this case, 17,500 MPH to apply to amateur satellites for example.
> Allowing speed values in excess of 975 be translated into Mach numbers
> was just an idea to allow for specifying the full range of speeds that
> might apply to APRS objects that would be backwards compatible to all
> existing software...

You're really only interested in one speed then? Why not just have a switch
that triggers on the object type then? I think there is a ICON for a satellite
if I'm not mistaken.

I understand what you are trying to do, I just question the need to do it. What
you are suggesting is to both modify the protocol and to transmit speeds over

the air. Since the stupid trackers can't do DR, that only leaves the computer operators. And they would be better served running a tracking program.

Just my thoughts.

Carry on.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 18 20:31:46 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00607
for <lyris.aprsspec@tapr.org>; Sat, 18 Mar 2000 20:31:42 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-71967-2000.03.18-20.30.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 18 Mar 2000 21:33:16 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <Pine.GS0.4.05L.10003182114060.8444-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D43C6C.C56B318D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>

> > So why again are you suggesting the APRS protocol be modified?
>
> Because it does not allow for Speeds of Orbiting APRS stations of which
> there are and will be many. We allowed for their altitude in the PHG
> equations, but overlooked their speeds.

To a certain degree (and I would need to hit the books to verify this), if a object is in a stable circular orbit, you can calculate the speed if you know the altitude.

Most certainly you will know the speed within the granularity of the Mach scale you suggest.

> Most MOBILE, PORTABLE adn HANDHELD units dont have PC's with them. It is
> useful to them to post OBJECTS showing them the position of satellites
> that they can work.

Yes, we don't disagree the stupid trackers (Kenwood) would benefit from the positions being sent of these objects.

> Such objects are moving stations, and as such need a
> realistic CSE/SPD vector.

Why? In your last message you said the Kenwood couldn't do dead reckoning, so I still don't understand why you want to modify APRS version 1.0 to support something that is of little or no value to these stupid trackers.

I think what might be of more value is to occasionally send out the keps, be it on APRSERVE or every so often on the local lan.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 04:20:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA29491
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 04:20:32 -0600 (CST)
Message-ID: <LYR11589-72019-2000.03.19-04.19.30--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 19 Mar 2000 05:18:17 -0500
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: To substitute or not to substitute... DIGI is the question
References: <LYR11610-71956-2000.03.18-19.36.46--propnet@greeceny.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <38D4A969.385B696B@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

With editing, Tj Johnston wrote:

> Here is the received packet, which I heard direct from KE4KLD....
> KE4KLD>APRSM,KF4HJW-10,WIDE3-3/0:=3719.31N/07719.00WMPHG5192/MacAPRS
> 3.2.6 -VA-CH_ENON -326-<04b>
>
> APRSdigi sees that KF4HJW-10 does not have the * to indicate that it
> digipeated it.. so it basically just ignores it.
>
> Should I ignore it by APRS digi standards, or should I digipeat it?

Hi Tj,

Assuming that you are hearing this packet direct (which is probable, since it looks like the two of you are less than 6km distant from each other), then the originating station desires to have KF4HJW-10 as the only station through which its packet is passed on it's way to the greater APRS network. Your system should ignore the packet.

It appears as though KE4KLD has already assessed the local network and determined that this is the way they want to use it.

If, though, they had launched the packet as: KE4KLD>APRSM,WIDE,WIDE3-3 . . then your system ought to call-substitute for the WIDE and digipeat it.

Good question, by the way.

Ev, W2EV

--

PropNET: an automated network, designed to study propagation anomalies.

<http://www.RochesterNY.org/PropNET>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 08:05:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04573
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 08:05:58 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 19 Mar 2000 09:05:11 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D43C6C.C56B318D@aerodata.net>
Message-ID: <LYR11589-72036-2000.03.19-08.04.43--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10003190900110.15004-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 18 Mar 2000, Jeff King wrote:

> I think what might be of more value is to occasionally send out the keps, be
> it on APRSERVE or every so often on the local lan.

APRStk can do this. It can format the keps into the NASA one-line element
format and it can receive them too. Thus only one station in the world
will need to update his elements. Everyone else will be updated
automatically. I will probably send one such packet every hour or less.

Igates will need to pass this from APRServe back to RF.
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 12:02:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12403
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 12:02:45 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72084-2000.03.19-12.01.53--
lyris.aprsspec@lists.tapr.org>
Date: Sun, 19 Mar 2000 13:04:11 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <Pine.GS0.4.05L.10003190900110.15004-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D5169B.F020742D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Sat, 18 Mar 2000, Jeff King wrote:
>
> > I think what might be of more value is to occasionally send out the keps, be
> > it on APRSERVE or every so often on the local lan.
>
> APRStk can do this.

OK. Not to sound like a broken record then, why would
any station have to "dead reckon" the position of the satellite then
(requiring a modification of the protocol APRS V1.0)? IMHO, it just
seems like all the tools are at your fingertips already to do a far better
job then just DR using course/speed.

(Note, any "Satellite orbital predication" program using the keps is in essence doing dead reckoning, the dead reckoning being discussed here is base solely on course and speed)

I understand the dumb trackers would need a posit sent out, but they can't do DR, hence the suggested modification to the protocol would not benefit them at all.

BTW, both basic and C source code for orbital prediction is available on the AMSAT web site. This covers all the authors except SA4, if they want to add this to their program. Otherwise, there are any number of freeware sat tracking programs available that end users can run.

Bob, I'm not in any way saying what you want to do is bad..... its great. But your suggesting a modification to the protocol for a purpose it doesn't appear well suited for. Further, and most importantly, there already exists, -today-, better methods to get the same results you are looking for, without any need to modify the existing protocol.

As not a single person from the APRS-WG (other then you) has commented here, maybe I could ask them to do so? I assume this already went through their process..... and apparently was approved? Maybe if one of them could clarify the need for the change, I might be able to understand why it is not redundant.

BTW, what did you think of my idea to use the satellite ICON to represent orbital speed? That wouldn't require a modification to the protocol if you still wanted to do D/R.

Thanks

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 13:15:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA14944
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 13:15:34 -0600 (CST)
Message-Id: <LYR11589-72091-2000.03.19-13.14.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
Date: Sun, 19 Mar 2000 14:15:14 -0500

From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <200003191915.0AA27167@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On 3/19/00 1:04 PM Jeff King (jeff@aerodata.net) wrote:

>As not a single person from the APRS-WG (other then you) has commented
>here, maybe I could ask them to do so? I assume this already went through
>their process..... and apparently was approved? Maybe if one of them
>could clarify the need for the change, I might be able to understand why it
>is not redundant.

>

It was the discussion of the satellite issue that led to my leaving the APRSWG. People were complaining to me that these reports generated long vectors that were cluttering javAPRS maps. I suggested that he return to sending 0/0 as course/speed, rather than transmit erroneous data.

I have no idea if this new proposal was discussed by the APRSWG, as I am no longer on their mail list. Bob's recent post here is the first I have heard of using mach numbers. However, knowing how the APRSWG works, I very much doubt it has been approved, or even discussed. Perhaps Bob came here to discuss it because no one on the APRSWG list is willing to spar with him anymore ;-)

I am sick of this subject, but I will post my position for the record. I am opposed to Bob sending a speed of 999 MPH with the sat positions, as this is incorrect...no data is better than bad data. Even if he solves the speed inaccuracy issue with this latest proposal (and this indeed is something that must be done on the APRSWG list, not here) there is still the fact that the course of a satellite is constantly changing in relationship to the earth's coordinate system. Even the best dead-reckoning software will err because of this. Due to the speed of a satellite, even the relatively short delays of an AX-25 network can result in errors of hundreds of miles. Given all these problems, I agree totally with Jeff that there are far better software tools for this if you have a computer available.

Bob wants to use these position reports to make people aware of the passes of the sats, so that handheld and mobile users can use the the

sats without needing a tracking program. My position is that it would be far easier for these people to make use of a message giving the times and azimuth of AOS, max el, and LOS, and the max el, transmitted shortly before a pass begins. It is these numbers, not the position of a satellite, that you actually need to track a sat with an Arrow antenna, or use a D700 to transmit. This is what APRStk ought to transmit, not bogus position reports...

Feel free to ignore these musings because, as Bob is certain to point out, I am violently "anti-Bob", and fervently believe his last good idea was the concept of APRS ;-)

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 13:20:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15181
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 13:20:17 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 19 Mar 2000 14:19:58 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D5169B.F020742D@aerodata.net>
Message-ID: <LYR11589-72092-2000.03.19-13.19.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10003191358260.19372-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Jeff King wrote:

> OK. Not to sound like a broken record then, why would
> any station have to "dead reckon" the position of the satellite then

> (requiring a modification of the protocol APRS V1.0)? IMHO, it just
> seems like all the tools are at your fingertips already to do a far better
> job than just DR using course/speed.
>
> I understand the dumb trackers would need a posit sent out, but they can't
> do DR, hence the suggested modification to the protocol would not
> benefit them at all.

Jeff, Please read this paragraph. I have said this three times. I hope you can understand it this time:

Here is why. To send SAT objects for the Kenwoods to see, those objects will ALSO appear on EVERYONE ELSE'S MAP. If it doesn't have a SPEED included in the packet, then that position is a LIE one second after it is transmitted. It is a moving object. A MOVING object is MOVING and will NOT be where it was posted at any time in the future. So to provide the current location of an object that is MOVING, it must also have a COURSE AND A SPEED.

And as Steve pointed out, if the SPEED does not match reality, then deadreckoning does not work and will not then clear these objects off everyone's maps.

I don't see you on APRS. What version of APRS do you use routinely? Is it not DRing these objects?

> But your suggesting a modification to the protocol for a purpose it doesn't
> appear well suited for. Further, and most importantly, there already exists,
> -today-, better methods to get the same results you are looking for,
> without any need to modify the existing protocol.

- 1) Forget the purpose. There are APRS stations moving at MACH25. Are we going to accommodate any speed above 999 or not?
- 2) Tell us your better way to get this data to a Handheld THD7 and mobile D700.

> BTW, what did you think of my idea to use the satellite ICON to represent
> orbital speed? That wouldn't require a modification to the protocol if you
> still wanted to do D/R.

Bad idea.

A kludge, allowing only one speed value, and also then requiring a modification to the spec. Also we have a Satellite on the top of a water tower here for local testing, It is NOT moving. With your idea, then I could not use the PACSAT ICON. Lots of problems with it.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 13:58:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA16670
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 13:58:39 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72100-2000.03.19-13.57.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 19 Mar 2000 14:59:43 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-72092-2000.03.19-13.19.22--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D531AF.CD3554CC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
> > I understand the dumb trackers would need a posit sent out, but they can't
> > do DR, hence the suggested modification to the protocol would not
> > benefit them at all.
>
> Jeff, Please read this paragraph. I have said this three times. I hope
> you can understand it this time.

The problem is, I do understand. Hence my concern.

All I can suggest to you, is to codify your idea and submit it to the APRS-WG. It might very well be a good addition to APRS Version 2.0. I will differ to them for this decision.

> > BTW, what did you think of my idea to use the satellite ICON to represent
> > orbital speed? That wouldn't require a modification to the protocol if you
> > still wanted to do D/R.
>
> Bad idea.
> A kludge, allowing only one speed value, and also then requiring a
> modification to the spec.

Kludge? That's a interesting statement.... First of all, all you are interested in is ONE speed value, that is, the speed of a object that is in a stable orbit around the earth.

Second of all, its not a modification to the spec, its a switch in the display program. This would in no-way change any of the over the air data. The sats velocity would be shown as "0" but then the user could set there display program to detect that the ICON was a SAT, implying the object was at orbital speed, and allowing the position to be determined from using the KEPS you had sent out earlier.

> Also we have a Satelllite on the top of a water
> tower here for local testing, It is NOT moving. With your idea, then I
> could not use the PACSAT ICON. Lots of problems with it.

>From the Dictionary: Satelllite 1. A relatively small body orbiting a planet.

If you chose to use a improper ICON, sure, you'll have a problem. There are lots of problems with people using hurricane objects for the position of their house..... that's why I guess most don't do it.

The problem with a spec is people expect you to actually follow it. If you want to change the spec, its my understanding you're supposed to submit it to the APRS-WG, and they will consider it for APRS version 2.0. As you also sit on the APRS-WG, it would be my expectation that you would be secluded from any internal discussions of the APRS-WG regarding the suggested addition you made.

Good luck

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 14:49:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18655
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 14:48:55 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72110-2000.03.19-14.48.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 19 Mar 2000 15:50:18 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-72092-2000.03.19-13.19.22--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D53D8A.A43C765F@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
> 2) Tell us your better way to get this data to a Handheld THD7 and mobile
> D700.

I like Steve's idea as it more directly addresses the specific requirements of the user.

Steve Dimse wrote:

> My position is that it would be
> far easier for these people to make use of a message giving the times and
> azimuth of AOS, max el, and LOS, and the max el, transmitted shortly

> before a pass begins. It is these numbers, not the position of a
> satellite, that you actually need to track a sat with an Arrow antenna,
> or use a D700 to transmit.

>
>
> > BTW, what did you think of my idea to use the satellite ICON to represent
> > orbital speed? That wouldn't require a modification to the protocol if you
> > still wanted to do D/R.

>
> Bad idea.
> A kludge, allowing only one speed value, and also then requiring a
> modification to the spec. Also we have a Satelllite on the top of a water
> tower here for local testing, It is NOT moving. With your idea, then I
> could not use the PACSAT ICON. Lots of problems with it.

>
> Bob
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Mar 19 15:10:43 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19359
for <lyris.aprsspec@tappr.org>; Sun, 19 Mar 2000 15:10:42 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72117-2000.03.19-15.08.26--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 19 Mar 2000 16:10:39 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MACH SPeeds

References: <LYR11601-72092-2000.03.19-13.19.22--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D5424E.C010EE95@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Sun, 19 Mar 2000, Jeff King wrote:

> > But your suggesting a modification to the protocol for a purpose it doesn't
> > appear well suited for. Further, and most importantly, there already exists,
> > -today-, better methods to get the same results you are looking for,
> > without any need to modify the existing protocol.

>

> 1) Forget the purpose. There are APRS stations moving at MACH25.

Forget the purpose of APRS? Hold on a minute here, I seem to recall everytime I pointed out some flaws in APRS, I was politely told that the concerns I had (primarily reliability) were outside the scope of the purpose of APRS.

> Are we going to accomodate any speed above 999 or not?

There is no compelling reason at this time to. There are no commonly available vehicles (save military) that can actively change speed/course vectors as a normal part of their operation in excess of 999 mph. The only civilian vehicle that could do this (The Bede BD-10), never made it through FAA certification.

As I have already stated, very excellent satellite tracking programs exist that can do a far better job then what you are suggesting, without requiring modifications to the protocol or redundant data to be sent over the air. Further, now that I understand what you are trying to do, I believe the needs of the "dumb tracker" users can better be addressed by Steve Dimse's suggestion.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 16:07:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA21452
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 16:07:57 -0600 (CST)
X-Envelope-From: carl_mail@dr.com
Date: Sun, 19 Mar 2000 22:04:56 GMT
Message-Id: <LYR11589-72141-2000.03.19-16.07.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: THD7 Position ambiguity
From: Carl <carl_mail@dr.com>
Reply-To: carl_mail@dr.com
Mime-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
In-Reply-To: <LYR13751-71951-2000.03.18-18.30.27--carl_mail#dr.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <VA.00000291.02f44ea7@study>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> The power of this, is that it lets handheld users of the THD7 keyboard in
> a POSIT at work and home and some favorite local places without having to
> carry a GPS unit everywhere he goes. And he will show up on the map as
> ambiguous to within a half mile of that location. Thus you can see about
> where he is for message purposes, but can also see at a glance that he is
> not using a GPS for precision...

Nice. But the distance calculations ought be based upon the .00 setting
else similar paths will change distance each day - and the variation ought
be .51 -.49 rather than .00-.99 IYSWIM

Carl gw0tqm
gw0tqm@iname.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 17:11:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA24089
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 17:11:02 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 19 Mar 2000 18:10:05 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <LYR11586-72091-2000.03.19-13.14.42--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-72169-2000.03.19-17.10.08--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003191730490.23183-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Steve Dimse wrote:

> It was the discussion of the satellite issue that led to my leaving the
> APRSWG. People were complaining to me that these reports generated long
> vectors that were cluttering javAPRS maps. I suggested that he return to
> sending 0/0 as course/speed, rather than transmit erroneous data.

The solution to the long vectors is a local display problem. APRSdos
solved it with a Log length vector. And, No, you insisted I either send
no speed, OR the "correct" speed. And no (0) speed is not an option for a
moving object.

> I have no idea if this new proposal was discussed by the APRSWG, as I am
> no longer on their mail list. Bob's recent post here is the first I have
> heard of using mach numbers. However, knowing how the APRSWG works, I
> very much doubt it has been approved, or even discussed. Perhaps Bob came
> here to discuss it because no one on the APRSWG list is willing to spar

> with him anymore ;-)

Its not a matter of sparing. Its a matter of discussing technical issues encountered in APRS. I posted it here because I thought that this spec list was for proposing possible modifications to the spec. That's what I thought this list was for.

> I am sick of this subject, but I will post my position for the record. I
> am opposed to Bob sending a speed of 999 MPH with the sat positions, as
> this is incorrect...no data is better than bad data. Even if he solves
> the speed inaccuracy issue with this latest proposal (and this indeed is
> something that must be done on the APRSWG list, not here).

I dont think the APRSwg is supposed to deliberate without some input from the users and others interested in contributing to modifications to the Spec.

> there is still
> the fact that the course of a satellite is constantly changing in
> relationship to the earth's coordinate system. Even the best
> dead-reckoning software will err because of this.

No. APRSst is determining the CSE vector by its changing position relative to the GROUND, NOT by its true orbital vector. Thus it is quite valid over the few minutes of the USA and mid latitudes which comprise most of the population density.

> Due to the speed of a satellite, even the relatively short delays of an
> AX-25 network can result in errors of hundreds of miles.

First, the error is only a few miles NOT hundreds. And Second, that is why moving objects are transmitted with TIME,COURSE and SPEED. It doesnt matter when it gets to you, since APRS Dead Reckoning will then be able to place it correctly.

> Given all these problems, I agree totally with Jeff that there are far
> better software tools for this if you have a computer available.

> Bob wants to use these position reports to make people aware of the
> passes of the sats, so that handheld and mobile users can use the the
> sats without needing a tracking program. My position is that it would be
> far easier for these people to make use of a message giving the times and
> azimuth of AOS, max el, and LOS, and the max el, transmitted shortly
> before a pass begins. It is these numbers, not the position of a
> satellite, that you actually need to track a sat with an Arrow antenna,
> or use a D700 to transmit. This is what APRStk ought to transmit, not
> bogus position reports...

Wrong. AZ/EL angles only apply for one observer at one place on earth. The AZ/EL to the satellite is different for all observers. The only accurate info that is universal is the satellites POSITION, TIME and CSE/SPD vector. From this, all else can be determined by ALL observers no matter where they are.

> Feel free to ignore these musings because, as Bob is certain to point
> out, I am violently "anti-Bob", and fervently believe his last good idea
> was the concept of APRS ;-)
>
> Steve K4HG

The problem remains. APRS does not address speeds in excess of 999 Kts, yet we have 4 satellties using APRS, and we have a commitment for the International Space Station to use APRS and MIR/Shuttle will use APRS on occasion. THus APRS should address how it is going to handle these moving stations at orbital speeds.

I am open to any other suggestions as to how to incorporate these speeds into APRS that are backwards compatible to the existing users. One other thought was to let 999 = 17,500 MPH and let 998 = The speed of the Concord. These are two notable exceptions. But rather than doing it that way, I proposed the MACH number approach above 975 Kts to allow for greater flexibilty... If there are other ideas, other than ignoring the problem, I am certainly open to discussing them..

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 17:41:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25063
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 17:41:53 -0600 (CST)
Message-Id: <LYR11589-72173-2000.03.19-17.41.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
Date: Sun, 19 Mar 2000 18:41:38 -0500
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200003192341.SAA21153@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/19/00 6:10 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>First, the error is only a few miles NOT hundreds. And Second, that is
>why moving objects are transmitted with TIME,COURSE and SPEED. It donest
>matter when it gets to you, since APRS Dead Reckoning will then be able to
>place it correctly.

>

Make up your mind...you told Jeff these reports are to help those without
access to real tracking programs on computers. Now you are saying you
need to use dead reckoning. Which is it?

>> Bob wants to use these position reports to make people aware of the
>> passes of the sats, so that handheld and mobile users can use the the
>> sats without needing a tracking program. My position is that it would be
>> far easier for these people to make use of a message giving the times and
>> azimuth of AOS, max el, and LOS, and the max el, tranmitted shortly
>> before a pass begins. It is these numbers, not the position of a
>> satellite, that you actually need to track a sat with an Arrow antenna,
>> or use a D700 to transmit. This is what APRStk ought to transmit, not
>> bogus position reports...

>

>Wrong. AZ/EL angles only apply for one observer at one place on earth.
>The AZ/EL to the satelllite is different for all observers. The only

You told me these are for transmission in local areas, not for worldwide
consumption. Have you changed your mind on this?

>accurate info that is universal is the satellites POSITION, TIME and
>CSE/SPD vector. From this, all else can be determined by ALL observers no
>matter where they are.

>

Well, Bob, you clearly are much better at trig-in-the-head than I.

If you tell me I'm at 24 42.54N 81 24.63W, and the sat is at 28 12.83N 83
22.63W, I sure can't figure out the elevation in my head. In fact,
neither can a computer, since you also need to figure in the altitudes. I
can guess it would be roughly NW, and the bandwidth of an Arrow is large
enough I should be able to find the sat, but I still have no idea how

"good" a pass this will be(i.e. what will be the max elevation).

On the other hand, if I know a pass starts at 4:30PM at 263 degrees, reaches max elevation of 53 degrees elevation, 24 azimuth at 4:36 and ends at 4:45 at 58 degrees, I have a great idea of where the sat will travel. Far more useful to my "non-engineering mind" as you call it!

How about the users? Which would you rather see? Or are all of you tired of this little glimpse at what the APRSWG was like? Promise, no more from me on this subject, I've moved on...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 18:09:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25990
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 18:09:15 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72188-2000.03.19-18.08.24--
lyris.aprsspec@tapr.org>
Date: Sun, 19 Mar 2000 19:10:41 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-72169-2000.03.19-17.10.08--jeff@aerodata.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D56C81.C08E3CAE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Sun, 19 Mar 2000, Steve Dimse wrote:

>

> > It was the discussion of the satellite issue that led to my leaving the
> > APRSWG. People were complaining to me that these reports generated long
> > vectors that were cluttering javAPRS maps. I suggested that he return to
> > sending 0/0 as course/speed, rather than transmit erroneous data.

>

> The solution to the long vectors is a local display problem. APRSdos
> solved it with a Log length vector. And, No, you insisted I either send
> no speed, OR the "correct" speed. And no (0) speed is not an option for a
> moving object.

A "local display problem" that would require changing the source code in EVERY SINGLE APRS display program out there with the changes you propose. Its great you have gone ahead and already done this, yet we now have a APRS-WG in place, and like it or not, the APRS-WG is supposed to keep some consistence in the user code space.

And speaking of "local display problems", what again was your concern with using the satellite ICON to signify an object was a small body orbiting the earth? *IF* a author wanted to change his code to incorporate this, he/she could, but if they didn't, it would not adversely effect the user experience and/or generate bogus data.

> I dont think the APRSwg is supposed to deliberate without some input from
> the users and others interested in contributing to modifications to the
> Spec.

Two users have already made comments on here regarding your idea.

> > there is still

> > the fact that the course of a satellite is constantly changing in
> > relationship to the earth's coordinate system. Even the best
> > dead-reckoning software will err because of this.

>

> No. APRSst is determining the CSE vector by its changing position
> relative to the GROUND, NOT by its true orbital vector. Thus it is quite
> valid over the few minutes of the USA and mid latitudes which comprise
> most of the population density.

What about all the other APRS display apps out there? Also, any part of the spec should work (IMHO) over the whole world, and not just the USA.

> > Due to the speed of a satellite, even the relatively short delays of an

> > AX-25 network can result in errors of hundreds of miles.
>
> First, the error is only a few miles NOT hundreds. And Second, that is
> why moving objects are transmitted with TIME,COURSE and SPEED. It doesn't
> matter when it gets to you, since APRS Dead Reckoning will then be able to
> place it correctly.

Do you have the spec available for "APRS Dead Reckoning" as I don't seem to see it in the protocol document. I question if it can do a good job in tracking an object in orbit and would like details.

> > Bob wants to use these position reports to make people aware of the
> > passes of the sats, so that handheld and mobile users can use the the
> > sats without needing a tracking program. My position is that it would be
> > far easier for these people to make use of a message giving the times and
> > azimuth of AOS, max el, and LOS, and the max el, transmitted shortly
> > before a pass begins. It is these numbers, not the position of a
> > satellite, that you actually need to track a sat with an Arrow antenna,
> > or use a D700 to transmit. This is what APRStk ought to transmit, not
> > bogus position reports...

>
> Wrong. AZ/EL angles only apply for one observer at one place on earth.
> The AZ/EL to the satellite is different for all observers. The only
> accurate info that is universal is the satellites POSITION, TIME and
> CSE/SPD vector. From this, all else can be determined by ALL observers no
> matter where they are.

So your typical handheld HT user is using a antenna with a beam width of 0.1 degrees or less?? WRONG. Typical beam widths are going to be on the order of +-30 degrees for a antenna you can hold in your hand. As such, small errors, such as from a APRStk station 50 miles away, won't amount to much for the typical altitude of most PACSATS.

> The problem remains. APRS does not address speeds in excess of 999 Kts,
> yet we have 4 satellites using APRS, and we have a commitment for the
> International Space Station to use APRS and MIR/Shuttle will use APRS on
> occasion. Thus APRS should address how it is going to handle these
> moving stations at orbital speeds.

It's called APRS Version 2.0. Propose your idea to the APRS-WG. BTW, there is no reason you can't create your own, independent protocol to do this, but I'd not try to mix it in the standard APRS Version 1.0 data stream IF it's going to give bogus reports, which apparently was going on. IMHO, this is grounds for "APRS compatible" de-certification, if/when these labels are assigned by the APRS-WG.

> I am open to any other suggestions as to how to incorporate these speeds
> into APRS that are backwards compatible to the existing users.

Satellite ICON = small body in orbit = ~17,500MPH = local display issue =
problem solved without a kludge to APRS V1.0 over the air protocol.

This wouldn't adversely affect legacy users as your suggestion might. Still
not a good solution for orbital prediction, but at least it wouldn't require
needless modification of the protocol.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 19:40:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA28948
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 19:40:41 -0600 (CST)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-72207-2000.03.19-19.39.37--
lyris.aprsspec@tapr.org>
Date: Sun, 19 Mar 2000 17:39:00 -0800
From: Terry Heatlie <kf6vtc@slip.net>
Reply-To: kf6vtc@arrl.net
Organization: Nortius Systems Inc
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR13243-72169-2000.03.19-17.10.08--kf6vtc@arrl.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D58134.B8596507@slip.net>
Precedence: bulk

Bob Bruninga wrote:

>

[...]

> The problem remains. APRS does not address speeds in excess of 999 Kts,

[...]

> I proposed the MACH number approach above 975 Kts to allow for
> greater flexibility...

I'm agnostic on whether to represent speeds > 999 kts in APRS.
But I'm compelled by my background (and doubtless my nit-picking
nature) to mention that to say something is moving at a Mach number
of 11 (for example) says nothing about what its speed is. Mach
number is a **dimensionless ratio** of the characteristic velocity
of a flow (for example the speed of an aircraft) **to the speed of
sound in the undisturbed regions of the flow**. So 1000 kts could
be any Mach number you like. If you specify that your fluid is
air, then the Mach number still varies with changes in conditions,
in particular with temperature.

Of course, you **could** say that the speed is Mach (x-974) in a
standard atmosphere (homogenous air at STP). But why bother?
Why not just say its (x-974)*1000 kts (for example).

--

Terry Heatlie KF6VTC

I'm riding in my fourth successive California AIDS ride to raise money
for AIDS services, education and research. Please sponsor me online at
https://www.weborder.com/cgi-weborder/secure_form/sfaf/carfrm.html?2157

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 21:34:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA03547
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 21:33:58 -0600 (CST)
Message-ID: <LYR11589-72231-2000.03.19-21.33.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "jsr" <kc5jgv@bobcats2.oursc.k12.ar.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13243-72169-2000.03.19-17.10.08--kf6vtc#arrrl.net@lists.tapr.org>
<LYR14466-72207-2000.03.19-19.39.37--kc5jgv#arrrl.net@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
Date: Mon, 20 Mar 2000 09:34:21 -0600

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00a501bf9281\$cc6d12c0\$f055fea9@bobcats2.oursc.k12.ar.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

For what its worth, I can see the usefulness of having the satellite information available to the Kenwood users. And the need to have a visual reference of the sat position at a given time. So why not instead of trying to make an object travel across the screen at ANY speed; instead put the object up at the apex (if that is the right word, I mean the highest point) relative to the issuing station with a time stamp that indicates the time of maximum coverage area.

It is obvious that this is a local use option. I certainly am not going to be interested in information about satellites from a station hundreds of miles away thus it couldn't possibly have any internet use. So how about it. You get the object and information out there prior to the satellites apex with a time of maximum coverage and usefulness; add in any additional information that you need such as time overhead or horizon to horizon or whatever. But forget the moving object issue because it may or may not be accurate and besides who would use it? The information is more important than the object moving. Then at the end of its usefulness send the delete code.

Well that is my point of view, for what its worth. I'd hope that Bob and Steve would be able put away this apparent personal issue between them and lets get back to improving this wonderful aspect of our HOBBY!!!

73

Scott, KC5JGV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Mar 19 22:27:03 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA05656
for <lyris.aprsspec@tappr.org>; Sun, 19 Mar 2000 22:26:58 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 19 Mar 2000 23:24:32 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <38D5424E.C010EE95@aerodata.net>
Message-ID: <LYR11589-72236-2000.03.19-22.25.55--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10003192214490.29557-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 19 Mar 2000, Jeff King wrote:

> > > But your suggesting a modification to the protocol for a purpose it
> > > doesn't appear well suited for...
> >
> > 1) Forget the purpose. There are APRS stations moving at MACH25.
>
> Forget the purpose of APRS? Hold on a minute here...

I didn't say that. You were objecting to my purpose for needing to
address orbital speeds in APRS. I was saying the purpose doesnt matter.
We have the problem of APRS stations at orbital speeds that need to be
addressed for whatever purpose.

> > Are we going to accomodate any speed above 999 or not?
>
> There is no compelling reason at this time to. There are no commonly
> available vehicles (save military) that can actively change
> speed/course vectors part of their operation in excess of 999 mph.

We are not talking about "changing" vectors, we are talking about
representing velocities. I already listed 4 existing APRS orbiting

objects and 3 very well known manned vehicles that fly at those speeds.

> As I have already stated, very
> excellent satellite tracking programs exist that can do a far better job than
> what you are suggesting

Then you dont understand. I am using an excellent tracking program to generate the satellite positions. It is able to provide tracking accuracies to 0.5 degrees for LEO objects moving at rates as high as several degrees per second. I am suggesting NO OTHER method for tracking satellties.

> without requiring modifications to the protocol
> or redundant data to be sent over the air. Further, now that I understand what
> you are trying to do, I believe the needs of the "dumb tracker" users can
> better be addressed by Steve Dimse's suggestion.

But his suggestion is flawed as I previously noted. Lists of pointing angles are valid for only one position on earth. They are useless for everyone else.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 22:37:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA06247
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 22:37:52 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 19 Mar 2000 23:37:15 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: THD7 Position ambiguity
In-Reply-To: <VA.00000291.02f44ea7@study>
Message-ID: <LYR11589-72241-2000.03.19-22.36.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003192334010.29557-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Carl wrote about letting a xxxx.00N/aaaaa.00W
position imply a 1 mile ambiguity....:

> Nice. But the distance calculations ought be based upon the .00 setting
> else similar paths will change distance each day - and the variation ought
> be .51 -.49 rather than .00-.99 IYSWIM

Yes, I considered the .50/.50 as actually the best indicator too, but
figured it would be even harder to find agreement to it... :-)

Yes, The D7 and D700 still compute from the 00 position.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 22:51:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA06607
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 22:51:01 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72248-2000.03.19-22.50.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 19 Mar 2000 23:52:08 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR13243-72169-2000.03.19-17.10.08--kf6vtc#arrl.net@lists.tapr.org>
<LYR14466-72207-2000.03.19-19.39.37--kc5jgv#arrl.net@lists.tapr.org>
<LYR11601-72231-2000.03.19-21.33.04--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38D5AE77.769DA086@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

jsr wrote:

> So why not instead of trying
> to make an object travel across the screen at ANY speed; instead put the
> object up at the apex (if that is the right word, I mean the highest point)
> relative to the issuing station with a time stamp that indicates the time
> of maximum coverage area.

This is more or less what Steve Dimse suggested. Or at least it could be derived from his suggested method.

-Jeff

>
> You get the object and information out there prior to the satellites apex
> with a time of maximum coverage and usefulness; add in any additional
> information that you need such as time overhead or horizon to horizon or
> whatever. But forget the moving object issue because it may or may not be
> accurate and besides who would use it? The information is more important
> than the object moving. Then at the end of its usefulness send the delete
> code.
>
> Well that is my point of view, for what its worth. I'd hope that Bob and
> Steve would be able put away this apparent personal issue between them and
> lets get back to improving this wonderful aspect of our HOBBY!!!
>
> 73
>
> Scott, KC5JGV
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 22:52:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA06637
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 22:52:09 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-72249-2000.03.19-22.51.14--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 19 Mar 2000 23:53:19 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
References: <LYR11601-72236-2000.03.19-22.25.55--jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38D5AEBF.2CF96E4A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob:

Lets see, I've addressed every point you made here at least once, and in some cases three times. Yet you keep going on and on without any acknowledgement of same.

This is pointless.....

-Jeff

Bob Bruninga wrote:

[...]

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 19 23:25:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA07588
for <lyris.aprsspec@tapr.org>; Sun, 19 Mar 2000 23:25:20 -0600 (CST)
Message-ID: <LYR11589-72250-2000.03.19-23.24.24--
lyris.aprsspec@tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11601-72236-2000.03.19-22.25.55--jeff#aerodata.net@lists.tapr.org>
<LYR13439-72249-2000.03.19-22.51.14--ssampson@usa-site.net@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
Date: Sun, 19 Mar 2000 23:25:38 -0600
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001401bf922c\$b9d4a380\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I think that people who want to communicate via the satellites
should have more sophisticated software then dead-reckon.

If I have to pay money for it, then I want to run it with the Keps
and have a quality track.

I need to know the Doppler based on my location, and at
400 MHz/9600 baud it may be more critical than dead-reckoning
would predict.

Whatever the case, I don't want this huge vector blasting onto

my screen. If it is moving across my position at 9000 m/s, all I want is a small vector that possibly is a Doppler based on my position, and is shown ahead of, or in trail of the satellite as it passes. Maybe blue and red colours, etc.

Make it so...

> This is pointless.....
>
> -Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 00:24:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA17035
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 00:24:40 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 Mar 2000 01:21:20 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <200003192341.SAA21153@raptor.netrox.net>
Message-ID: <LYR11589-72278-2000.03.20-00.22.10--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003200004370.29557-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Steve Dimse wrote:

> On 3/19/00 6:10 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:
> >First, the error is only a few miles NOT hundreds. And Second, that is
> >why moving objects are transmitted with TIME,COURSE and SPEED. It donest

> >matter when it gets to you, since APRS Dead Reckoning will then be able to
> >place it correctly.

> Make up your mind...you told Jeff these reports are to help those without
> access to real tracking programs on computers. Now you are saying you
> need to use dead reckoning. Which is it?

You still dont understand the issues. I am posting the objects *for* those HT/Mobile users without tracking software. But as a consequence, the objects will also appear on everyone *elses* maps, and these will be *DeadReckoned* as a consequence (Thats what APRS does). So therefore they need to have a CSE and SPEED that is accurate so that they will be DR'ed properly... and not erroneously. In fact it was you who pointed out the erroneous DR that I am trying now to fix.

> >> Bob wants to use these position reports to make people aware of the
> >> passes of the sats, so that handheld and mobile users can use the the
> >> sats without needing a tracking program. My position is that it would be
> >> far easier for these people to make use of a message giving the times and
> >> azimuth of AOS, max el, and LOS, and the max el, tranmitted shortly
> >> before a pass begins. It is these numbers, not the position of a
> >> satellite, that you actually need to track a sat...

Bob replied:

> >Wrong. AZ/EL angles only apply for one observer at one place on earth.
> >The AZ/EL to the satellite is different for all observers....

Steve:

> You told me these are for transmission in local areas, not for worldwide
> consumption. Have you changed your mind on this?

Nope. In Maryland, I expect my satellie objects will be seen out about 150 miles in all directions. THus for the Shuttle in a 150 mile orbit, the difference in AZ/EL angles for a station south of me and one north of me can EASILY see different AZ angles by 180 degrees! and Elevation angle differences of 45 degrees or more. That's why posting AZ/EL angles is pointless.

Bob continued...

> >... the only accurate info that is universal is the satellite's
> >POSITION, TIME and CSE/SPD vector. From this, all else can be
> >determined by ALL observers no matter where they are.

> Well, Bob, you clearly are much better at trig-in-the-head than I.

Thanks. But it isn't rocket science. Just visualize two users, one north of me and one south of me during a north south pass and I think anyone can see the gross errors that AZ/EL predictions would cause.

> If you tell me I'm at 24 42.54N 81 24.63W, and the sat is at 28 12.83N
> 83 22.63W, I sure can't figure out the elevation in my head. In fact,
> neither can a computer, since you also need to figure in the altitudes. I
> can guess it would be roughly NW...

Then you haven't seen the APRStk object on your D7 or D700. The Radio
computes for you an exact azimuth based on the *position* of you and the
satellite. The OBJECT also tells you the satellite's Frequency,
AND the Distnace AND the RANGE... Everything you need. Just comparing
the Distance to the 500 mile height can give you a very good idea of
elevation angle. Example. If its 500 miles distant, then the angle is 45
degrees.

> On the other hand, if I know a pass starts at 4:30PM at 263 degrees,
> reaches max elevation of 53 degrees elevation, 24 azimuth at 4:36 and
> ends at 4:45 at 58 degrees, I have a great idea of where the sat will
> travel....

Yep, but that is a personal prediction for your own given location.
And how many of these personal AZ/EL predictions do you want me to
clutter the airwaves with? To be as accurate as you demanded in your
initial post, then I would have to send out say 16 such alerts, one for
each 50 miles and each of the cardinal directions from my station. Then
the poor users would have to figure out which of these 16 messages applied
to him... A hopeless mess... I think the single OBJECT I am posting is
much more effecient use of the channel.

> How about the users? Which would you rather see? Or are all of you tired
> of this little glimpse at what the APRSWG was like? Promise, no more from
> me on this subject, I've moved on...
>
> Steve K4HG

Yep, Here is what the users would choose from:

My way: A single U014 posit on their front panel showing the actual
azimuth in real time and all the other info about FREQ,
direction of movement and so forth no matter where they were.

Your way: Their message list (can only hold 16 messages) is full of
lists of times, angles and Dopplers which they must then
compare to their location (to konw which one to use) and
then they have to compare the times with their watches
to know what angle to use when, and when to tune...

Also, my ONE packet applies to the whole USA (if we can ever get the
IGates to carry it), wheras your plan would take about 200 individual

messages that could have errors of over 45 degrees.

The choice seems obvious to me...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 00:53:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA17515
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 00:53:33 -0600 (CST)
Message-Id: <LYR11589-72285-2000.03.20-00.52.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 19 Mar 2000 23:52:59 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] THD7 as built
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130302b4fb7a222191@[198.106.196.245]>
<LYR11893-72262-2000.03.20-00.01.18--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, group -

There has been a fair amount of discussion related to things like "DX Spot" which have referred to "APRS as implemented by Kenwood" or variations, there-of.

Can someone tell me where to find the as-built description of the protocol in the Kenwood machines?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 00:54:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA17542
 for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 00:54:02 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 Mar 2000 01:53:32 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeds
In-Reply-To: <38D56C81.C08E3CAE@aerodata.net>
Message-ID: <LYR11589-72286-2000.03.20-00.53.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003200123540.29557-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 19 Mar 2000, Jeff King wrote:

> > Bob wrote:
> > The solution to the long vectors is a local display problem. APRSdos
> > solved it with a Log length vector....
>
> A "local display problem" that would require changing the source code in
> EVERY SINGLE APRS display program out there with the changes you propose.

No, they dont need to change it if their users will put up with speed vectors 10 times longer than their screens... APRS has always had a speed range of 1 to 999 MPH. If their software did not accomodate this, then its a local display problem.

> > No. APRSst is determining the CSE vector by its changing position
> > relative to the GROUND, NOT by its true orbital vector. Thus it is quite
> > valid over the few minutes of the USA and mid latitudes which comprise
> > most of the population density.
>
> What about all the other APRS display apps out there? Also, any part of the
> spec should work (IMHO) over the whole world, and not just the USA.

It does work everywhere. Satelllite ground tracks are essentially straight lines on the surface of the spherical earth.

> Do you have the spec available for "APRS Dead Reckoning" as I don't seem
> to see it in the protocol document. I question if it can do a good job in
> tracking an object in orbit and would like details.

Simple physics. An object in motion tends to stay in motion along the same path unless operated on by an external force. In this case, the path is the ground track which is essentially a straight line.

Steve said:

> > > My position is that it would be
> > > far easier for these people to make use of a message giving the times and
> > > azimuth of AOS, max el, and LOS, and the max el, tranmitted shortly
> > > before a pass begins. It is these numbers, not the position of a
> > > satelllite, that you actually need to track a sat...

Bob said:

> > Wrong. AZ/EL angles only apply for one observer at one place on earth.
> > The AZ/EL to the satelllite is different for all observers. The only
> > accurate info that is universal is the satelllites POSITION, TIME and
> > CSE/SPD vector.

Jeff said:

> So your typical handheld HT user is using a antenna with a beam width of
> 0.1 degrees or less?? WRONG.

I dont know where you inferred 0.1 degree. About 60 degrees is probably the 3 dB beamwidth.

> Typical beam widths are going to be on the order of +-30 degrees for a
> antenna you can hold in your hand. As such, small errors, such as from a
> APRStk station 50 miles away, won't amount to much for the typical

> altitude of most PACSATS.

You might say the error is small, but it is that kind of sloppiness that should not creep into APRS. Say my program predicts a pass of the Shuttle to peak at 60 degrees to the east. A user 150 miles east of me sees that prediction goes out to the EAST side of his building to show off to his colleagues. Boy will he look stupid when the satellite passes behind his building to the west at 60 degrees and he cannot hear it because it is blocked by the building!

Bob also said:

> > The problem remains. APRS does not address speeds in excess of 999 Kts,
> > yet we have 4 satellties using APRS, and we have a commitment for the
> > International Space Station to use APRS and MIR/Shuttle will use APRS on
> > occasion. THus APRS should address how it is going to handle these
> > moving stations at orbital speeds.

>

> Its called APRS Version 2.0. Propose your idea to the APRS-WG.

I thought I just did...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 00:54:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA17573
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 00:54:18 -0600 (CST)
Message-Id: <LYR11589-72287-2000.03.20-00.53.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 19 Mar 2000 23:54:00 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] "Kenwood" symbol
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130303b4fb7b576a2b@[198.106.196.245]>

<LYR11893-70040-2000.03.09-00.00.47--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can someone suggest what a "Kenwood" symbol ought to look like?

Thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 01:10:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA17944
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 01:10:17 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 Mar 2000 02:09:50 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <38D5AEBF.2CF96E4A@aerodata.net>
Message-ID: <LYR11589-72288-2000.03.20-01.09.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10003200207220.29557-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Jeff King wrote:

> Lets see, I've addressed every point you made here at least once, and in
> some cases three times. Yet you keep going on and on without any
> acknowledgement of same.
>
> This is pointless.....

Hummhh.. I thought I replied to every one of your points. But I think
this is kinda getting boring too...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 01:22:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA18087
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 01:22:38 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 Mar 2000 02:21:28 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MACH SPeeds
In-Reply-To: <LYR11586-72250-2000.03.19-23.24.24--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-72289-2000.03.20-01.21.39--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10003200214140.29557-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 19 Mar 2000, Steve Sampson wrote:

> I think that people who want to communicate via the satellites
> should have more sophisticated software then dead-reckon.

They will/do. The object will be updated by a true prediction program every minute. No one has said that DRing is how we plan on plotting the satellites in APRS. People have gotten everythign totally confused. DRing is NOT the intent at all. It is simply a consequence that must be addressed for moving stations for those objects properly and accurately placed on a map by ANY program.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 02:24:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA19730
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 02:23:59 -0600 (CST)
Message-ID: <LYR11589-72300-2000.03.20-02.23.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 20 Mar 2000 07:48:15 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: "Kenwood" symbol
References: <LYR14779-72287-2000.03.20-00.53.25--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-72287-2000.03.20-00.53.25--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <LQ0oAHA\$ed14Ewhu@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-72287-2000.03.20-00.53.25--Ian.Wade#care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>

>Can someone suggest what a "Kenwood" symbol ought to look like?

Well, over here in the UK Kenwood make kitchen appliances like food mixers etc

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 03:15:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA20929
for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 03:15:26 -0600 (CST)
Message-Id: <LYR11589-72311-2000.03.20-03.14.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Mon, 20 Mar 2000 01:00:09 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: MACH SPeeds
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11639-72286-2000.03.20-00.53.11--ke6afe#arrl.net@lists.
tapr.org>
References: <38D56C81.C08E3CAE@aerodata.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyriss Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.1.2.20000320002105.00b4b4b0@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 10:53 PM 3/19/2000, Bob Bruninga wrote:

>Jeff said:

> > Its called APRS Version 2.0. Propose your idea to the APRS-WG.

>

>I thought I just did...

>

>de WB4APR, Bob

I had meant to make some more comments on APRS Version 1.0 too, but its public discussion period ended on December 19, 1999. <http://www.tapr.org/tapr/html/Faprswg.html> ;-)

But seriously now, I don't see any good reason for this to have become such a big fuss. Seems no terrestrial objects are going to use the last few numbers possible (greater than 900 knots) in the speed field. Why not allow Bob to use those numbers to display satellite speeds in his applications? If they cause long DR line displays that bother other than Kenwood D7/D700 users, have the bothered users simply turn off DR in their APRS applications. I've been coping with long DR lines from mobiles using \$GPRMC for years already as things are.

73, Cap KE6AFE

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]

email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>

packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 20 06:53:41 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA05269

for <lyris.aprsspec@tapr.org>; Mon, 20 Mar 2000 06:53:40 -0600 (CST)

Message-ID: <LYR11589-72331-2000.03.20-06.52.36--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Steve Sampson" <ssampson@usa-site.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR13439-72287-2000.03.20-00.53.25--ssampson#usa-site.net@lists.tapr.org>

Subject: [aprsspec] Re: "Kenwood" symbol

Date: Mon, 20 Mar 2000 06:53:49 -0600

Organization: USA Site Network

MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <003801bf926b\$565db140\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Maybe a "rising sun" flag with a K in it/

----- Original Message -----

>

> Can someone suggest what a "Kenwood" symbol ought to look like?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 20 15:02:36 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA23323
for <lyris.aprsspec@tappr.org>; Mon, 20 Mar 2000 15:02:34 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-72435-2000.03.20-15.01.44--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 20 Mar 2000 16:01:05 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Re: "Kenwood" symbol
Cc: aprsspec@lists.tappr.org
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <v0420552fb4fc4193fb76@[165.230.133.70]>
<LYR11588-72287-2000.03.20-00.53.25--ksproul#vger.rutgers.edu@lists.tappr.o

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200003231734.MAA11422230@ha2.ntr.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

help

Download ICQ at <http://www.icq.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 23 15:26:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA01631
for <lyris.aprsspec@tapr.org>; Thu, 23 Mar 2000 15:26:44 -0600 (CST)
Message-Id: <LYR11589-73179-2000.03.23-15.25.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Thu, 23 Mar 2000 16:25:59 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: help
In-Reply-To: <LYR11608-73156-2000.03.23-11.34.30--dvanhorn#cedar.net@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.0.1.20000323162539.03958910@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 12:34 PM 3/23/00 +0500, n3zll@amsat.org wrote:
>help

Could you be a little less specific?

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBONq2F4F1GDz1l6VWEQJMQwCg4iuNzcKyn2diEHXD6+KKIjsDfq4AoKnK

09jqB8+gn3IgtIs/SkAahCnm
=EgcA
-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 24 11:47:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA24966
for <lyris.aprsspec@tapr.org>; Fri, 24 Mar 2000 11:47:03 -0600 (CST)
Message-ID: <LYR11589-73355-2000.03.24-11.46.17--
lyris.aprsspec@tapr.org>
Reply-To: "Thomas M. Schaefer" <ny4i@arrl.net>
From: "Thomas M. Schaefer" <toms@inconnect.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] [OT] Irvine, CA
Date: Fri, 24 Mar 2000 10:49:10 -0700
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_004B_01BF957E.96146480"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <004e01bf95b9\$47d282d0\$6ec6ed89@SC017588>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----=_NextPart_000_004B_01BF957E.96146480
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I am going to be in Irvine, Ca on Monday and Tuesday nights. Anyone know =
of any club meetings or other activities I might want to attend.

Tom NY4I

-----=_NextPart_000_004B_01BF957E.96146480

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML><HEAD>

<META content=3D"text/html; charset=3Diso-8859-1" =

http-equiv=3DContent-Type>

<META content=3D"MSHTML 5.00.2920.0" name=3DGENERATOR>

<STYLE></STYLE>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV>I am going to be in Irvine, Ca on =

Monday and=20

Tuesday nights. Anyone know of any club meetings or other activities I =

might=20

want to attend.</DIV>

<DIV> </DIV>

<DIV>Tom NY4I</DIV></BODY></HTML>

-----=_NextPart_000_004B_01BF957E.96146480--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 26 19:30:24 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA02763

for <lyris.aprsspec@tapr.org>; Sun, 26 Mar 2000 19:30:23 -0600 (CST)

Message-ID: <LYR11589-73782-2000.03.26-19.29.43--

lyris.aprsspec@tapr.org>

From: Bill Diaz <billldiaz@megsinet.net>

Reply-To: "billldiaz@megsinet.net" <billldiaz@megsinet.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] APRS Protocol 1.0.1g documentation errors

Date: Sun, 26 Mar 2000 19:26:32 -0600

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <01BF9759.37019F80.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Ian,

While attempting to write code to decode compressed position reports an error in the examples was found.

Chapter 9, Compressed Positon Report Data Format, page 32,
Lat,Long decoding :

To decode a compressed lat/long, the reverse process is needed. That is, if YYYY is represented as y1,y2,y3,y4 and XXXX as x1,x2,x3,x4, then:

$$\text{Lat} = 90 - ((y1-33)*91^3 + (y2-33)*91^2 + (y3-33)*91 + y4-33) / 380972$$

$$\text{Long} = -180 + ((x1-33)*91^3 + (x2-33)*91^2 + (x3-33)*91 + x4-33) / 190486$$

For example, if the compressed value of the longitude is <+%A (as computed above), the calculation becomes:

$$\begin{aligned}\text{Long} &= -180 + (27*91^3 + 10*91^2 + 4*91 + 32) / 190486 \\ &= -180 + (20346417 + 82810 + 364 + 32) / 190486 \\ &= -180 + 107.25 \\ &= -72.75 \text{ degrees}\end{aligned}$$

$$\text{Look at the statement } \text{Long} = -180 + (20346417 + 82810 + 364 + 32) / 190486$$

The Value 82810 is supposed to be 91^2 or 8281, not 82810.

The next problem I encountered had to do with the precedence of math operations. I copied the example almost verbatim. Must be getting lazy in my old age. The results of decoding the compressed location data were not within reasonable limits. I modified the example code to ensure that math operations were carried out in the proper order. That is, when in doubt as to the precedence of operations, add parentheses! Here is what I came up with :

$$\begin{aligned}\text{Lat} &:= 90 - (((\text{CLat}[1]-33) * 753571) + ((\text{CLat}[2]-33) * 8281) \\ &\quad + ((\text{CLat}[3]-33) * 91) + (\text{CLat}[4]-33)) / 380972; \\ \text{Lon} &:= -180 + (((\text{Clon}[1]-33) * 753571) + ((\text{Clon}[2]-33) * 8281) \\ &\quad + ((\text{Clon}[3]-33 * 91)) + (\text{Clon}[4]-33)) / 190486;\end{aligned}$$

The results now appear to be reasonable.

Several other examples in the documentation do not clearly illustrate the required precedence of math operations. These may work in some versions of

Basic, but the purpose of examples should be to provide the reader with example code or algorithms written to clearly illustrate the math processes required.

Overall, the documentation is a superb piece of work. Hopefully, minor errors, and modified examples could be provided in any future release.

Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 26 21:19:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA06044
for <lyris.aprsspec@tapr.org>; Sun, 26 Mar 2000 21:19:29 -0600 (CST)
Message-ID: <LYR11589-73795-2000.03.26-21.18.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-73782-2000.03.26-19.29.43--
ssampson@usa-site.net@lists.tapr.org>
Subject: [aprsspec] Re: APRS Protocol 1.0.1g documentation errors
Date: Sun, 26 Mar 2000 21:19:23 -0600
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000a01bf979b\$40336ba0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Several other examples in the documentation do not clearly illustrate the
> required precedence of math operations. These may work in some versions of

> Basic, but the purpose of examples should be to provide the reader with
example
> code or algorithms written to clearly illustrate the math processes required.

My original comment was, that if there is any math past a sum or product, it
should probably be written using standard math notation, and forget about the
B.A.S.I.C., Fortran, C, or Forth examples.

The spec is being written using Microsoft Word, so I know that math symbols
are available. Actually, I would rather it be left in Microsoft Word than
converted to PDF, which is completely useless if you want to make notes to
yourself. You would have to print it out and OCR it back in, and then correct
all the errors. Really a mess. Just leave it in Word.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 27 00:57:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA20875
for <lyris.aprsspec@tapr.org>; Mon, 27 Mar 2000 00:57:23 -0600 (CST)
Message-ID: <LYR11589-73841-2000.03.27-00.56.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 27 Mar 2000 07:55:58 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: APRS Protocol 1.0.1g documentation errors
References: <LYR14779-73782-2000.03.26-19.29.43--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-73782-2000.03.26-19.29.43--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <zi36vDA+Xw34EwFI@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Bill. Thanks for the input.

>For example, if the compressed value of the longitude is <+%A (as computed
>above), the calculation becomes:

>Long = -180 + (27*91^3 + 10*91^2 + 4*91 + 32) / 190486

^^^

^^^

>

>Look at the statement Long = -180 + (20346417 + 82810 + 364 + 32) / 190486

>

>The Value 82810 is supposed to be 91^2 or 8281, not 82810.

No, it is *ten times* 91^2 (see the third line of your quote above).

>

>The next problem I encountered had to do with the precedence of math
>operations.

I know. There are several misleading math statements throughout the spec, arising mainly from just taking the statements from original documentation. There was a very tight deadline to get the draft finished in December, and there wasn't time to straighten it all out. I'm now fixing all these statements to make them consistent and mathematically rigorous.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 29 09:12:53 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16957
for <lyris.aprsspec@tappr.org>; Wed, 29 Mar 2000 09:12:51 -0600 (CST)
Message-ID: <LYR11589-74264-2000.03.29-09.12.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: [aprssig] Opening WinAPRS w/ D700a
Date: Wed, 29 Mar 2000 09:08:54 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01BF995E.6C8B3060.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Jonathon,

I believe the "port failed to open" error can be experienced when attempting to open a port that is being used by another application. Com ports can not be shared between applications. Perhaps you had another application using the comport when you experienced the error? Is the Kenwood control program still running?

Bill KC9XG

On Wednesday, March 29, 2000 8:46 AM, Jonathan Kaplan [SMTP:jonk@jskent.com] wrote:

> Hi all,
> I just finishing installing a D700a with a small PharosGPS
> receiver and it works greats, thank you very much. But now when I try
> to open the VHF TNC port inside WinAPRS v 224 that I have installed
> on a 486 laptop running Win95, I get "port failed to open". I'm using
> the DB-9 connector on the radio and I know the port parameters are
> OK (I just before configured the radio using Kenwood's control program).
> I also get no data inside the terminal window. Can someone provide a
> checklist of things that might be wrong?
>
> Thanks,
>
> Jonathank06XS
>

>
> ---
> You are currently subscribed to aprssig as: BILLDIAZ@MEGSINET.NET
> To unsubscribe send a blank email to leave-aprssi-2095E@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Mar 31 04:02:05 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id EAA07476
for <lyris.aprsspec@tappr.org>; Fri, 31 Mar 2000 04:02:03 -0600 (CST)
Message-ID: <LYR11589-74581-2000.03.31-04.01.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Hurricane Spec
Date: Fri, 31 Mar 2000 09:59:58 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <002c01bf9af7\$df9bea00\$1e984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi All,

A not so friendly reminder that it is now 60 Days to the start of the Atlantic Hurricane Season, with no useable hurricane protocol defined. I believe the Working Group has dropped the ball.

73 de KG5QD Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 31 05:42:29 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA09536
for <lyris.aprsspec@tapr.org>; Fri, 31 Mar 2000 05:42:28 -0600 (CST)
Message-ID: <LYR11589-74583-2000.03.31-05.41.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-74581-2000.03.31-04.01.36--ssampson#usa-
site.net@lists.tapr.org>
Subject: [aprsspec] Re: Hurricane Spec
Date: Fri, 31 Mar 2000 05:42:30 -0600
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000c01bf9b06\$3271efa0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

They said they weren't developing anything new, just documenting
what was already there. How is not developing *any* protocol
"dropping the ball?"

They didn't develop a forest fire protocol either...

What's wrong with just putting a hurricane symbol on the map?

----- Original Message -----

> Hi All,
> A not so friendly reminder that it is now 60 Days to the start of the
> Atlantic Hurricane Season, with no useable hurricane protocol defined. I
> believe the Working Group has dropped the ball.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 31 06:03:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA09873
for <lyris.aprsspec@tapr.org>; Fri, 31 Mar 2000 06:03:04 -0600 (CST)
Message-ID: <LYR11589-74586-2000.03.31-06.02.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 31 Mar 2000 07:02:32 -0500
From: csuprin@mitre.org (Charles Suprin)
Organization: The MITRE Corporation
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org (APRS Spec Discussion List)
Subject: [aprsspec] Re: Hurricane Spec
References: <LYR13439-74581-2000.03.31-04.01.36--ssampson#usa-
site.net@lists.tapr.org> <LYR12284-74583-2000.03.31-05.41.55--
csuprin#mitre.org@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38E493D8.CD3E631F@mitre.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I agree. They claimed to be documenting APRS. Not enhancing.
That is something to be left to the next version.

Charles

Steve Sampson wrote:

>
> They said they weren't developing anything new, just documenting
> what was already there. How is not developing *any* protocol
> "dropping the ball?"
>
> They didn't develop a forest fire protocol either...
>
> What's wrong with just putting a hurricane symbol on the map?

>
> ----- Original Message -----
>
> > Hi All,
> > A not so friendly reminder that it is now 60 Days to the start of the
> > Atlantic Hurricane Season, with no useable hurricane protocol defined. I
> > believe the Working Group has dropped the ball.
>
> ---
> You are currently subscribed to aprsspec as: csuprin@mitre.org
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Mar 31 06:10:10 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA10123
for <lyris.aprsspec@tappr.org>; Fri, 31 Mar 2000 06:10:09 -0600 (CST)
Message-ID: <LYR11589-74588-2000.03.31-06.09.46--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Hurricane Spec
Date: Fri, 31 Mar 2000 12:08:17 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <000601bf9b09\$cd556580\$35994d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve and all-

The hurricane spec in the Draft of the protocol bears very little relationship to what was used up until now- It is new and not used by anyone. I jumped up and down about this 4 months ago and was assured it

would be taken care of. The problem with "just putting a hurricane symbol on the map" is that the current position of the hurricane may be the least important piece of information needed. What areas the wind fields affect, and what the predicted wind fields might be, are far more important for emergency planning, both personal and governmental.

Steve Sampson Said:

-----Original Message-----

>They said they weren't developing anything new, just documenting
>what was already there. How is not developing *any* protocol
>"dropping the ball?"
>
>They didn't develop a forest fire protocol either...
>
>What's wrong with just putting a hurricane symbol on the map?
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 31 08:07:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA12711
for <lyris.aprsspec@tapr.org>; Fri, 31 Mar 2000 08:07:40 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 31 Mar 2000 09:07:14 -0500 (EST)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Hurricane Spec
In-Reply-To: <LYR11586-74581-2000.03.31-04.01.36--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-74597-2000.03.31-08.07.13--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.05L.10003310901160.6830-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 31 Mar 2000, Dale Huguley wrote:

> A not so friendly reminder that it is now 60 Days to the start of the
> Atlantic Hurricane Season, with no useable hurricane protocol defined. I
> believe the Working Group has dropped the ball.

I thought the hurricane stuff was working fine. It has these features:

- 1) Both Hurricane, Tropical Storm and Tropical Depression ICONS defined
- 2) Icon for future predict posits defined
- 3) Include CSE and SPD of movement of the storms
- 4) Reports peak and sustained winds
- 5) Reports Barrometric pressure
- 6) Reports radius circles for TROP and HR force winds in two colors
- 7) Offsets the wind circle into the danger quadrant
proportional to vector sum of wind speeds and storm track

What is missing?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 31 17:12:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA00899
for <lyris.aprsspec@tapr.org>; Fri, 31 Mar 2000 17:12:42 -0600 (CST)
Message-ID: <LYR11589-74718-2000.03.31-17.12.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Which Hurricane Spec?
Date: Fri, 31 Mar 2000 23:10:39 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <000601bf9b66\$55263500\$58984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob and all-

So which spec should I use- the one contained in wx.txt in the readme folder of Dos Aprs - or the Draft Protocol?

They are not the same- nor are they compatable

If it is the Draft Protocol, is everyone going to get a new version out in time for Hurricane season?

If it is the old spec, why hasn't the Draft Protocol been changed to comform?

The Draft Protocol has the central pressure moved to the end of the string and a digit added which means that the wind fields will not parse properly in any known version of dos/mac/win/palm/x/aprs.

I pointed this out in January.

73 de kg5qd Dale

>

>What is missing?

>

>Bob

>

>

>

>---

>You are currently subscribed to aprsspec as: kg5qd@worldnet.att.net

>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 1 08:30:47 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11455
for <lyris.aprsspec@tappr.org>; Sat, 1 Apr 2000 08:30:46 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 1 Apr 2000 09:29:52 -0500 (EST)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Which Hurricane Spec?
In-Reply-To: <LYR11586-74718-2000.03.31-17.12.17--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-74808-2000.04.01-08.29.58--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10004010927570.15917-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 31 Mar 2000, Dale Huguley wrote:

> The Draft Protocol has the central pressure moved to the end of the string
> and a digit added which means that the wind fields will not parse properly
> in any known version of dos/mac/win/palm/x/aprs.
> I pointed this out in January.

We are waiting for comments from the SProuls. My software doesnt care. I
dont know how the fields got moved around, but My opinion is that we go
with what was in the dos TXT files unless someone can come up with why it
was changed...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 1 13:29:38 2000

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id NAA20531
for <lyris.aprsspec@tapir.org>; Sat, 1 Apr 2000 13:29:37 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-74882-2000.04.01-13.28.58--
lyris.aprsspec@tapir.org@lists.tapir.org>
Date: Sat, 01 Apr 2000 14:28:55 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: Which Hurricane Spec?
References: <LYR11601-74808-2000.04.01-08.29.58--jeff#aerodata.net@lists.tapir.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
X-Message-Id: <38E64DF7.57EB65D2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Bob Bruninga wrote:

> My opinion is that we go
> with what was in the dos TXT files unless someone can come up with why it
> was changed...

I think your missing Dale's point (and one I feel strongly on also). Your extensions need to be incorporated into the APRSPEC. I would think that one of the reasons for the SPEC is to reduce so many different implementations of each authors favorite "protocol". Thats not to say what you or anyone else is doing is "wrong", its just a process now exists to addresse these changes/extensions.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 2 22:43:59 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA01424
for <lyris.aprsspec@tappr.org>; Sun, 2 Apr 2000 22:43:58 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 2 Apr 2000 23:43:23 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Which Hurricane Spec?
In-Reply-To: <38E64DF7.57EB65D2@aerodata.net>
Message-ID: <LYR11589-75085-2000.04.02-22.43.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004022342180.18530-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Thats what I mean. Unless someone can say why the SPEC got it diffeent
from my WX.TXT file, then lets fix the spec to what it should be...

bob

On Sat, 1 Apr 2000, Jeff King wrote:

>
>
> Bob Bruninga wrote:
>
> > My opinion is that we go
> > with what was in the dos TXT files unless someone can come up with why it
> > was changed...
>
> I think your missing Dale's point (and one I feel strongly on also). Your
extensions
> need to be incorporated into the APRSPEC. I would think that one of the
> reasons for the SPEC is to reduce so many different implementations of each
authors
> favorite "protocol". Thats not to say what you or anyone else is doing is

"wrong",
> its just a process now exists to addresse these changes/extensions.
>
> -Jeff
>
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 03:03:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA17458
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 03:03:40 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] dGPS
Date: Mon, 3 Apr 2000 18:03:49 +1000
Message-ID: <LYR11589-75130-2000.04.03-03.03.21--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
In-Reply-To: <LYR11660-75106-2000.04.03-00.00.51--darryl@radio-active.net.au>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000e01bf9d43\$25403dc0\$32ae2acb@de11.radio-active.net.au>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day All...

It has just been suggested to me that the TO callsign for dGPS transmissions should not be dGPS but dGPSxxxx (or how ever many characters is allowed by the TNC) with the xxxx being the station ID of the dGPS station. Also in Ham Radio maybe we should be coordinating dGPS station ID's and recording them somewhere centrally (like on the iGATE database)...

I know this is only a partial SPEC issue... But I thought I would raise it here....

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 07:10:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA03372
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 07:10:53 -0500 (CDT)
Message-ID: <LYR11589-75150-2000.04.03-07.10.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 08:10:24 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6C60@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Would there be some benefit to the xxxx being the Maidenhead square rather than a lookup table value?

> -----Original Message-----

> From: Darryl Smith [SMTP:darryl@radio-active.net.au]

> Sent: Monday, April 03, 2000 4:04 AM

> To: APRS Spec Discussion List

> Subject: [aprsspec] dGPS

>

> G'Day All...

>

> It has just been suggested to me that the T0 callsign for dGPS

> transmissions

> should not be dGPS but dGPSxxxx (or how ever many characters is allowed by

> the TNC) with the xxxx being the station ID of the dGPS station. Also in

> Ham

> Radio maybe we should be coordinating dGPS station ID's and recording them

> somewhere centrally (like on the iGATE database)...

>

> I know this is only a partial SPEC issue... But I thought I would raise it

> here....

>

> Darryl

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 08:15:08 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA05439

for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 08:15:03 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Mon, 3 Apr 2000 09:14:07 -0400 (EDT)

From: Bob Bruninga <bruninga@nadm.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: dGPS

In-Reply-To: <LYR11586-75130-2000.04.03-03.03.21--bruninga@nadm.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-75170-2000.04.03-08.14.44--

lyris.aprsspec@tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004030912380.17615-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 3 Apr 2000, Darryl Smith wrote:

> It has just been suggested to me that the TO callsign for dGPS transmissions
> should not be dGPS but dGPSxxxx (or how ever many characters is allowed by
> the TNC) with the xxxx being the station ID of the dGPS station. Also in Ham
> Radio maybe we should be coordinating dGPS station ID's and recording them
> somewhere centrally (like on the iGATE database)...

Can you explain further? The full callsign of the DGPS station is in the
FROM field. So I guess I dont see why it needs to be in the TO field too?
But if there is a need, let us know...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 08:19:16 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA06429
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 08:19:15 -0500 (CDT)
Message-ID: <LYR11589-75172-2000.04.03-08.18.53--
lyris.aprsspec@tappr.org@lists.tappr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: dGPS
Date: Mon, 3 Apr 2000 09:18:34 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6C63@SHPMAIL>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Now there is something that would help (on a channel that had lots of DGPS stations) - having dGPSxxxx with the xxxx being maidenhead square... then gateways would only relay the nearest dGPS station... and/or your system would only select the dGPS station that had the best info (nearest to you....)

ALOHA
AH6LS

> -----Original Message-----
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]
> Sent: Monday, April 03, 2000 9:14 AM
> To: APRS Spec Discussion List
> Cc: APRS Spec Discussion List
> Subject: [aprsspec] Re: dGPS
>
> On Mon, 3 Apr 2000, Darryl Smith wrote:
>
> > It has just been suggested to me that the T0 callsign for dGPS
> transmissions
> > should not be dGPS but dGPSxxxx (or how ever many characters is allowed
> by
> > the TNC) with the xxxx being the station ID of the dGPS station. Also in
> Ham
> > Radio maybe we should be coordinating dGPS station ID's and recording
> them
> > somewhere centrally (like on the iGATE database)...
>
> Can you explain further? The full callsign of the DGPS station is in the
> FROM field. So I guess I dont see why it needs to be in the T0 field too?
> But if there is a need, let us know...
>
> Bob
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 08:58:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA09830
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 08:58:37 -0500 (CDT)

Date: Mon, 3 Apr 2000 08:58:04 -0500 (CDT)
From: Tim Salo <salonetworkcs.com>
Message-Id: <LYR11589-75183-2000.04.03-08.58.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: dGPS
In-Reply-To: <LYR11595-75130-2000.04.03-03.03.21--
salonetworkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004031358.IAA33322@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> From: "Darryl Smith" <darryl@radio-active.net.au>
> Subject: [aprsspec] dGPS
> Date: Mon, 3 Apr 2000 18:03:49 +1000
>
> It has just been suggested to me that the T0 callsign for dGPS transmissions
> should not be dGPS but dGPSxxxx (or how ever many characters is allowed by
> the TNC) with the xxxx being the station ID of the dGPS station. ...

The AX.25 specification states that call signs are six upper case or
numeric characters, blank filled.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 12:39:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA18415
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 12:39:56 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75224-2000.04.03-12.39.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 13:40:23 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: dGPS
References: <LYR11601-75130-2000.04.03-03.03.21--jeff#aerodata.net@lists.tapir.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <38E8D787.72EEACC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Darryl Smith wrote:

> G'Day All...
>
> It has just been suggested to me that the TO callsign for dGPS transmissions
> should not be dGPS but dGPSxxxx (or how ever many characters is allowed by
> the TNC) with the xxxx being the station ID of the dGPS station.

Would need to be dGxxxx (or possibly dGPxxx-x).

But the station ID is already in the DGPS data stream, other then human
readability,
what value would the station id be in the callsign field?

> Also in Ham
> Radio maybe we should be coordinating dGPS station ID's and recording them
> somewhere centrally (like on the iGATE database)...

On the TAPR DGPS, most are using "73" and I don't believe they have a official
coordination from any body that is already doing this. I'm not sure of the
ramifications of
having the same station ID, other then likely its "not good". Also, you need to
remember
that the TAPR DGPS is not the only source of DGPS data available to hams. Some are
now
experimenting with DGPS over IP, which typically uses the coast guard stations for
its
data source (but can use anything).

> I know this is only a partial SPEC issue... But I thought I would raise it
> here....

Being the station ID is in the DGPS stream already (which is clearly defined) and there is no mechanism (that I know of) to coordinate station ID's for amateur DGPS stations, it might be best for the spec to avoid this issue entirely.

Just my thoughts.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 15:21:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00381
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 15:21:07 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
Date: Tue, 4 Apr 2000 06:21:10 +1000
Message-ID: <LYR11589-75241-2000.04.03-15.20.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <Pine.GSO.4.05L.10004030912380.17615-100000@arctic>
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000301bf9daa\$267b9e20\$32ae2acb@dell.radio-active.net.au>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day

To explain further, the way that dGPS works is that there is a 'STATION ID' encoded in the dGPS data. This is a number from 0 to 1023. If the data from two dGPS stations using the same 'STATION ID' at different locations is sent to a single GPS the results could lead to bizzare and very incorrect results.

Whay I am suggesting is that

a) we encode the 'STATION ID' as part of the T0 callsign e.g. dG0073 for StationID 0073. dG1023 for Station 1023 etc. This would allow users to easally filter the data based on callsign rather than the content of the data which would be nasty if you were wanting to do it in PC software (one more area of bugs) or a PIC for teh GARMIN RTCM Rx Packet problem...

b) But we would need to make sure that all users used a different STATION ID... Simple way would be to suggest a number based on a HASH of the callsign... Or at least encourage random numbers.

I believe there is some software in 'C' being releast at some stage for MOT to RTCM conversions so we may as well get this issue sorted now.... Also I have during testing been feeding dGPS to the iGATE....

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@nadn.navy.mil]
Sent: Monday, April 03, 2000 11:14
To: Darryl Smith
Cc: APRS Spec Discussion List
Subject: Re: [aprsspec] dGPS

On Mon, 3 Apr 2000, Darryl Smith wrote:

> It has just been suggested to me that the T0 callsign for dGPS transmissions
> should not be dGPS but dGPSxxxx (or how ever many characters is allowed by
> the TNC) with the xxxx being the station ID of the dGPS station. Also in Ham
> Radio maybe we should be coordinating dGPS station ID's and recording them
> somewhere centrally (like on the iGATE database)...

Can you explain further? The full callsign of the DGPS station is in the FROM field. So I guess I dont see why it needs to be in the T0 field too?

But if there is a need, let us know...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 16:06:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02255
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 16:06:40 -0500 (CDT)
Date: Mon, 3 Apr 2000 16:04:24 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-75259-2000.04.03-16.04.34--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
In-Reply-To: <LYR11595-75241-2000.04.03-15.20.57--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004032104.QAA47570@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> From: "Darryl Smith" <darryl@radio-active.net.au>
> Subject: [aprsspec] RE: dGPS
> Date: Tue, 4 Apr 2000 06:21:10 +1000
>
> To explain further, the way that dGPS works is that there is a 'STATION ID'
> encoded in the dGPS data. This is a number from 0 to 1023. If the data from
> two dGPS stations using the same 'STATION ID' at different locations is sent
> to a single GPS the results could lead to bizzare and very incorrect
> results.
> [...]

I probably don't understand something fundamental, but...

Why don't you simply differentiate DGPS stations based of the "from"
call sign? Uniqueness is then assured, (plus or minus misconfiguration).

Alternatively, you could concatenate the "from" call and the "station id"

prior to testing for equality.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 16:19:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02690
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 16:19:25 -0500 (CDT)
Message-Id: <LYR11589-75264-2000.04.03-16.19.14--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 17:19:12 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004032119.RAA08429@maynard.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/3/00 5:04 PM Tim Salo (salo@networkcs.com) wrote:

>> To explain further, the way that dGPS works is that there is a 'STATION ID'
>> encoded in the dGPS data. This is a number from 0 to 1023. If the data from
>> two dGPS stations using the same 'STATION ID' at different locations is sent
>> to a single GPS the results could lead to bizzare and very incorrect
>> results.

>> [...]

>

>I probably don't understand something fundamental, but...

>

>Why don't you simply differentiate DGPS stations based of the "from"
>call sign? Uniqueness is then assured, (plus or minus misconfiguration).

>

>Alternatively, you could concatenate the "from" call and the "station id"
>prior to testing for equality.

>

The way the DGPS is generally used is the raw data from a TNC is passed to the input of a GPS without further processing. It can indeed cause problems if multiple stations use the same station ID. The answer is local coordination of ID's. Adding another ID code in the to call does nothing to solve the problem.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 16:52:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA03760
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 16:52:21 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75266-2000.04.03-16.52.01--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 17:52:50 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
References: <LYR11601-75241-2000.04.03-15.20.57--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38E912B1.464F53F7@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Darryl Smith wrote:

> Whay I am suggesting is that
> a) we encode the 'STATION ID' as part of the TO callsign e.g. dG0073 for
> StationID 0073. dG1023 for Station 1023 etc. This would allow users to
> easally filter the data based on callsign rather than the content of the

> data which would be nasty if you were wanting to do it in PC software (one
> more area of bugs) or a PIC for teh GARMIN RTCM Rx Packet problem...

Yeap, but the Reference station I.D. is in the first word of each DGPS message.
Its the 15th through 24th bit (30 bits total including parity). It should be the
first thing after the "DGPS". 30 bits is not to much to deal with even for a
PIC.

In any case, you really should only have "one" (the best) DGPS station in each
area, or
make sure the data is valid for each area. You don't want to be sending Point
Blunt
data in Germany, for example when more local data is available. But that is more
a common sense issue then anything else.

> b) But we would need to make sure that all users used a different
STATION
> ID... Simple way would be to suggest a number based on a HASH of the
> callsign... Or at least encourage random numbers.

Yes different ID's. But I believe there is already a body that assigns ID's. I
think with
DGPS-IP using commercial services, you'd be well advised not to have people
picking them randomly.

While part b) is a worthy point to discuss, I think it is outside the scope of
the APRSSPEC.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 16:52:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA03771
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 16:52:29 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75267-2000.04.03-16.52.20--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 17:53:05 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
References: <LYR11601-75264-2000.04.03-16.19.14--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <38E912C1.8243ABC3@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Dimse wrote:

> The answer is
> local coordination of ID's. Adding another ID code in the to call does
> nothing to solve the problem.

And who would do this? I thought these ID's were assigned by the Coast Guard.

This is why I earlier stated that I thought the APRS-WG shouldn't touch this. No need to deal with it as its already been delt with.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 17:03:38 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03998
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 17:03:36 -0500 (CDT)
Message-Id: <LYR11589-75270-2000.04.03-17.03.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 18:03:10 -0400
x-sender: sdimse@m1.sprynet.com

From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004032203.SAA23866@smtp6.mindspring.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/3/00 5:53 PM Jeff King (jeff@aerodata.net) wrote:

>> The answer is
>> local coordination of ID's. Adding another ID code in the to call does
>> nothing to solve the problem.
>
>And who would do this? I thought these ID's were assigned by the Coast
>Guard.
>
>This is why I earlier stated that I thought the APRS-WG shouldn't touch this.
>No need to deal with it as its already been delt with.
>
I agree. The ID's are coordinated by the CG, but I very much doubt they
will be giving them out to hams. The idea is just to pick a number
different from that which everyone else is using. Since there is no
crossover between the APRS DGPS transmitters and the CG ones, there
should not be any problem...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 17:07:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04226
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 17:07:24 -0500 (CDT)
Message-ID: <LYR11589-75271-2000.04.03-17.07.15--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11601-75264-2000.04.03-16.19.14--jeff#aerodata.net@lists.tapr.org>
<LYR13439-75267-2000.04.03-16.52.20--ssampson@usa-site.net@lists.tapr.org>

Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 17:06:36 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <008401bf9db8\$e0f725e0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

No. You just set the switches on your DGPS. I used my home address, but I put it in backwards, so it's reverse binary, oops...

The Coast Guard only handles Coast Guard stuff, they don't have the manpower to handle every frequency someone puts two or more DGPS's on.

I do think the whole DGPS issue is going to go away in a few years, as the Coast Guard fills all the gaps with its 300 kHz stations. Hombrew DGPS will no longer be needed.

----- Original Message -----

> > The answer is
> > local coordination of ID's. Adding another ID code in the to call does
> > nothing to solve the problem.
>
> And who would do this? I thought these ID's were assigned by the Coast
> Guard.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 17:10:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04383
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 17:10:41 -0500 (CDT)
Message-ID: <LYR11589-75272-2000.04.03-17.10.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 18:10:41 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6C6C@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Let us NOT get in the US concentric mode too far... think the
WORLD view... for areas not covered by USCG...

ALOHA
AH6LS

> -----Original Message-----
> From: Steve Sampson [SMTP:ssampson@usa-site.net]
> Sent: Monday, April 03, 2000 6:07 PM
> To: APRS Spec Discussion List
> Subject: [aprsspec] RE: dGPS
>
> No. You just set the switches on your DGPS. I used my home
> address, but I put it in backwards, so it's reverse binary, oops...
>
> The Coast Guard only handles Coast Guard stuff, they don't
> have the manpower to handle every frequency someone puts
> two or more DGPS's on.
>
> I do think the whole DGPS issue is going to go away in a few
> years, as the Coast Guard fills all the gaps with its 300 kHz
> stations. Hombrew DGPS will no longer be needed.
>
> ----- Original Message -----
>
> > > The answer is
> > > local coordination of ID's. Adding another ID code in the to call does
> > > nothing to solve the problem.

> >
> > And who would do this? I thought these ID's were assigned by the Coast
> > Guard.
>
>
>
> ---
> You are currently subscribed to aprsspec as: asadowski@ncshp.org
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 17:28:57 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04700
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 17:28:55 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75275-2000.04.03-17.28.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 03 Apr 2000 18:29:32 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
References: <LYR11601-75270-2000.04.03-17.03.23--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <38E91B4B.333980AC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Dimse wrote:

> On 4/3/00 5:53 PM Jeff King (jeff@aerodata.net) wrote:
>

> >This is why I earlier stated that I thought the APRS-WG shouldn't touch this.
> >No need to deal with it as its already been delt with.
> >
> I agree. The ID's are coordinated by the CG, but I very much doubt they
> will be giving them out to hams. The idea is just to pick a number
> different from that which everyone else is using. Since there is no
> crossover between the APRS DGPS transmitters and the CG ones, there
> should not be any problem...

The operative word here is "not yet". Your well aware that it would be a trivial matter to port the DGPS-IP over to APRS. Hence, one should not go on the assumption one will never see the CG transmitters data stream on APRS frequencies.

I don't think its that big of a deal in any case.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 17:34:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04840
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 17:33:56 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75276-2000.04.03-17.33.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 18:34:40 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
References: <LYR11601-75264-2000.04.03-16.19.14--jeff#aerodata.net@lists.tapr.org>
<LYR13439-75267-2000.04.03-16.52.20--ssampson#usa-site.net@lists.tapr.org>
<LYR11601-75271-2000.04.03-17.07.15--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38E91C7F.F2D0FAE5@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Sampson wrote:

> The Coast Guard only handles Coast Guard stuff, they don't
> have the manpower to handle every frequency someone puts
> two or more DGPS's on.

Exactly. But my point was you don't want to go randomly assigning them
without some knowledge of what has already been assigned.

> I do think the whole DGPS issue is going to go away in a few
> years, as the Coast Guard fills all the gaps with its 300 kHz
> stations. Hombrew DGPS will no longer be needed.

I believe the point of APRS DGPS is the data shares the
same radio channel and/or technology. I.E. A VHF channel. The ham doesn't need
to purchase a \$300+ DGPS receiver/antenna combo. With the TAPR DGPS all a
end user needs to do is wire the RTCM input to the TNC out.

The fact that we will have good coverage of Coast Guard stations won't change the
obvious economic advantage of this solution.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 17:44:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA05136
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 17:44:06 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75279-2000.04.03-17.43.40--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 18:44:41 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.

X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
References: <LYR11601-75272-2000.04.03-17.10.31--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <38E91ED9.77F169FC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

"Sadowski, Allan" wrote:

> Let us NOT get in the US concentric mode too far... think the
> WORLD view... for areas not covered by USCG...
>
> ALOHA
> AH6LS

The longwave "USCG DGPS" systems coverage actually is worldwide. See:

<http://www.csi-dgps.com/dgps/maps/world.htm>

Kinda makes you wonder why they even bother with S/A...

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 18:18:29 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA06296
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 18:18:23 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 3 Apr 2000 19:17:39 -0400 (EDT)

From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
In-Reply-To: <000301bf9daa\$267b9e20\$32ae2acb@dell.radio-active.net.au>
Message-ID: <LYR11589-75286-2000.04.03-18.18.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10004031917040.9341-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

But why not just filter on the FROM CALL? It seems FROM CALL is unique
and so the probelm is solved...

bob

On Tue, 4 Apr 2000, Darryl Smith wrote:

> G'Day
>
> To explain further, the way that dGPS works is that there is a 'STATION ID'
> encoded in the dGPS data. This is a number from 0 to 1023. If the data from
> two dGPS stations using the same 'STATION ID' at different locations is sent
> to a single GPS the results could lead to bizzare and very incorrect
> results.
>
> Whay I am suggesting is that
> a) we encode the 'STATION ID' as part of the TO callsign e.g. dG0073 for
> StationID 0073. dG1023 for Station 1023 etc. This would allow users to
> easally filter the data based on callsign rather than the content of the
> data which would be nasty if you were wanting to do it in PC software (one
> more area of bugs) or a PIC for teh GARMIN RTCM Rx Packet problem...
> b) But we would need to make sure that all users used a different STATION
> ID... Simple way would be to suggest a number based on a HASH of the
> callsign... Or at least encourage random nunbers.
>
> I believe there is some software in 'C' being releast at some stage for MOT
> to RTCM conversions so we may as well get this issue sorted now.... Also I
> have during testing been feeding dGPS to the iGATE....
>

> Darryl
>
> -----
> Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au for domain names
>
>
> -----Original Message-----
> From: Bob Bruninga [mailto:bruninga@nadm.navy.mil]
> Sent: Monday, April 03, 2000 11:14
> To: Darryl Smith
> Cc: APRS Spec Discussion List
> Subject: Re: [aprsspec] dGPS
>
>
> On Mon, 3 Apr 2000, Darryl Smith wrote:
>
> > It has just been suggested to me that the T0 callsign for dGPS
> transmissions
> > should not be dGPS but dGPSxxxx (or how ever many characters is allowed by
> > the TNC) with the xxxx being the station ID of the dGPS station. Also in
> Ham
> > Radio maybe we should be coordinating dGPS station ID's and recording them
> > somewhere centrally (like on the iGATE database)...

>
> Can you explain further? The full callsign of the DGPS station is in the
> FROM field. So I guess I dont see why it needs to be in the T0 field too?
> But if there is a need, let us know...

>
> Bob
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 18:59:53 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA07646
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 18:59:52 -0500 (CDT)
Date: Mon, 3 Apr 2000 16:59:22 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
In-Reply-To: <LYR12892-75275-2000.04.03-17.28.36--
hacker@tc.fluke.com@lists.tappr.org>
Message-ID: <LYR11589-75316-2000.04.03-18.59.38--
lyris.aprsspec@tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.10.10004031656020.3065-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 3 Apr 2000, Jeff King wrote:

> The operative word here is "not yet". Your well aware that it would be a
> trival matter to port the DGPS-IP over to APRS. Hence, one should not go
> on the assumption one will never see the CG transmitters data stream on
> APRS frequencies.

Very slightly off-topic:

If all you want is to DGPS-correct the local GPS and not to rebroadcast
the DGPS stuff over amateur frequencies, you can do that now with "gpsd"
and "Xastir" on Linux and perhaps other Unix-based OS'es.

: -)

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 3 19:39:02 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA08778
for <lyris.aprsspec@tappr.org>; Mon, 3 Apr 2000 19:38:56 -0500 (CDT)
Message-Id: <LYR11589-75342-2000.04.03-19.38.44--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 20:38:37 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <200004040038.UAA30576@tisch.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 4/3/00 6:29 PM Jeff King (jeff@aerodata.net) wrote:

>The operative word here is "not yet". Your well aware that it would be a
>trivial matter to port the DGPS-IP over to APRS. Hence, one should not go
>on the assumption one will never see the CG transmitters data stream on
>APRS frequencies.

>

Ahh, but that would probably be against FCC rules.

97.113

(e) No station shall retransmit programs or signals emanating from any type of radio station other than an amateur station, except propagation and weather forecast information intended for use by the general public and originated from United States Government stations and communications, including incidental music, originating on United States Government frequencies between a space shuttle and its associated Earth stations. Prior approval for shuttle retransmissions must be obtained from the National Aeronautics and Space Administration. Such retransmissions must be for the exclusive use of amateur operators. Propagation, weather forecasts, and shuttle retransmissions may not be conducted on a regular basis, but only occasionally, as an incident of normal amateur radio

communications.

I suppose you could argue this, saying that part of the error that dGPS corrects is propagation error, but I personally would have a hard time saying that with a straight face...

It is interesting that it would be quite legal to retransmit a dGPS broadcast from the internet, as long as it was sent directly to the internet and not through a radio first. On the other hand, it would seem to be illegal for me to use MacAPRS to send a message through an IGate on my new laptop, which uses an 11 Mbs Airport link. The signals are on 2.4 GHz, so technically IGating a message is the retransmission of a 2.4 GHz Part 15 transmission.

Amazing how rules that were once concise and unambiguous get left in the dust of technologic progress!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 21:02:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA12366
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 21:02:54 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75351-2000.04.03-21.01.05--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 03 Apr 2000 22:01:50 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
References: <200004040038.UAA30576@tisch.mail.mindspring.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <38E94D0E.F140635A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse wrote:

> On 4/3/00 6:29 PM Jeff King (jeff@aerodata.net) wrote:
>
> >The operative word here is "not yet". Your well aware that it would be a
> >trivial matter to port the DGPS-IP over to APRS. Hence, one should not go
> >on the assumption one will never see the CG transmitters data stream on
> >APRS frequencies.
> >
> Ahh, but that would probably be against FCC rules.

Maybe, but not really relevant with regards to this discussion. Also, note the discussion started with (I think) a Australian ham, who of course is not bound by FCC rules.

I let people make their own decision with regards to the rules.

> -----
> 97.113(e)
> -----
>
> I suppose you could argue this, saying that part of the error that dGPS
> corrects is propagation error, but I personally would have a hard time
> saying that with a straight face...

Last time I looked, Ionospheric delay (which DGPS corrects) is propagation error. Also corrects atmospheric delay (I think they call that slant angle? Gerry?).

> It is interesting that it would be quite legal to retransmit a dGPS
> broadcast from the internet, as long as it was sent directly to the
> internet and not through a radio first.

Impossible to determine this.... I mean, if it goes through one microwave or SAT telco link its "radio". I take this rule as having the radio receiver and transmitter at the same site directly hooked together. Hence, a non issue. Also, if you reformat the data (which you are), are you really rebroadcasting it? To fuzzy, FCC won't waste there time prosecuting you unless your really crossing the line. Get your own legal opinion, but I'd not worry much about it.

> Amazing how rules that were once concise and unambiguous get left in the

> dust of technologic progress!

Yeap, the moral of the story is have a good attorney on retainer and always act in good faith. I don't spend alot of time overanalyzing the rules, but look at the intent. Things simply are moving to fast.

-Jeff wb8wka

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 3 22:06:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA14311
for <lyris.aprsspec@tapr.org>; Mon, 3 Apr 2000 22:06:21 -0500 (CDT)
Message-ID: <LYR11589-75357-2000.04.03-22.06.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-75342-2000.04.03-19.38.44--ssampson@usa-
site.net@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
Date: Mon, 3 Apr 2000 22:04:49 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <006e01bf9de2\$8adbe5e0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

It's surprising how much you can do without a national organization!
(OK, OK, I'm just kidding...)

Part-15 SS, the only way to go! Part-97 rules are completely bogus

above 30 MHz. Only a relay league could cherish the product...

I run a 5 mile 2.4 GHz link between myself and a friend. I'm thinking of using it to run a split repeater site on 2 m. Putting together another 5 mile link to the ISP. I've got these down to about \$650 a node, or \$1k per back-to-back link (\$450 per 500 mW bridge, \$100 for Radio Shack tri-pod and mast). "Only" 1.6 Mbps though.

I can see the time rapidly approaching where mobile emitters at 2.4 GHz would be possible in many cities with a central node. All of the imposed APRS hacks to work at 1.2 kbps would seem quaint :-)

Steve, k5okc

<http://www.usa-site.net/~ssampson/radio>

----- Original Message -----

[snip]

> Amazing how rules that were once concise and unambiguous get left in the
> dust of technologic progress!

>

> Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 4 06:27:01 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA12257

for <lyris.aprsspec@tapr.org>; Tue, 4 Apr 2000 06:27:00 -0500 (CDT)

Message-ID: <LYR11589-75394-2000.04.04-06.26.50--

lyris.aprsspec@tapr.org>

From: "Sadowski, Allan" <allan.sadowski@ncshp.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: dGPS

Date: Tue, 4 Apr 2000 07:26:52 -0400

MIME-Version: 1.0

Content-Type: text/plain

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6C6E@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> After looking at the ref USCG pic.... I reiterate... USCG is DEFINITELY a
> US concentric
> system and it doesnt even cover large parts of the US.... nor the major
> shipping transit
> areas between US territories... though that's not as important...
> Looking at the map
> its clear that the Caribbean.. and Med... heck.. LOTS of areas where I'd
> love to have
> dGPS... are not going to be covered in any plan... the VLF DGPS
> correction info (as I
> understand the system) is satelllite correction data for those satellites
> in view of the area
> local to a particular beacon (as the pic clearly shows)... though many US
> and European
> areas do have continuous coverage (due to a large number of DGPS
> beacons)... most
> of this planet isn't now covered.. nor will it ever be... No way a
> beacon 600 miles from
> me is gonna do me any good... the satelllites seen at that location differ
> from what I see
> at my location... and the beacon doesn't propogate that far anyway...
>
> ALOHA
> AH6LS
>
Stupid thought.. but wouldn't it be better to TURN OFF SA... so nobody
develops
a workaround.... then when you needed to juke up the system turn on SA...
seems
I'd be a much simpler approach... though it'd be worthless in a "Pearl
Harbor"
scenario - i.e. surprise attack... like I said.. stupid thought....

SNIP....

> The longwave "USCG DGPS" systems coverage actually is worldwide. See:
>
> <http://www.csi-dgps.com/dgps/maps/world.htm>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 4 10:16:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA18578
for <lyris.aprsspec@tapr.org>; Tue, 4 Apr 2000 10:16:30 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75415-2000.04.04-10.14.32--
lyris.aprsspec@lists.tapr.org>
Date: Tue, 04 Apr 2000 11:14:47 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: dGPS
References: <BF01BF9F0651D311B7A100104B716B904B6C6D@SHPMAIL>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EA06E7.1C04D1EE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

"Sadowski, Allan" wrote:

```
> Jeff
>
> After looking at the ref USCG pic.... I reiterate... USCG is DEFINITELY a US
> concentric
> system and it doesnt even cover large parts of the US.... nor the major
> shipping transit
> areas between US territories... though that's not as important...
```

To clarify, I thought your use of "US concentric" meant it was only a U.S. territorial

DGPS system. Its been adopted over a large part of the world. As to coverage, well that's

up to each individual area to do on their own.

-Jeff

> > The longwave "USCG DGPS" systems coverage actually is worldwide. See:
> >
> > <http://www.csi-dgps.com/dgps/maps/world.htm>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Apr 5 04:09:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA16125
for <lyris.aprsspec@tapr.org>; Wed, 5 Apr 2000 04:09:26 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: aprsspec digest: April 04, 2000
Date: Wed, 5 Apr 2000 19:03:09 +1000
Message-ID: <LYR11589-75564-2000.04.05-04.09.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
In-Reply-To: <LYR11660-75546-2000.04.05-00.03.50--darryl#radio-
active.net.au@lists.tapr.org>
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001001bf9ede\$074edb40\$32ae2acb@dell.radio-active.net.au>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day

>> After looking at the ref USCG pic.... I reiterate... USCG is DEFINITELY a
US
>> concentric
>> system and it doesnt even cover large parts of the US.... nor the major

>> shipping transit
>> areas between US territories... though that's not as important...
>
>To clarify, I thought your use of "US concentric" meant it was only a U.S. territorial
>DGPS system. Its been adopted over a large part of the world. As to coverage, well that's
>up to each individual area to do on their own.

Well, us people in the newer ex-british colonies are sort of disadvantaged when it comes to dGPS infrastructure... Whereas the USA has probably 100 stations, Australia has less than 10 operational stations, for a country about the same size, with more coast line.... I personally would call it northern-hemisphere-centric myself... It looks like 90% of stations are in the north, and most are in the west.... So us poor people in the south-eastern quadrant are left out :-)

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Apr 5 10:44:49 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA26198
for <lyris.aprsspec@tapr.org>; Wed, 5 Apr 2000 10:44:44 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-75602-2000.04.05-10.44.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 05 Apr 2000 11:44:18 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: aprsspec digest: April 04, 2000
References: <LYR11601-75564-2000.04.05-04.09.03--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EB5F52.F8F4EE81@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Darryl Smith wrote:

>
> >To clarify, I thought your use of "US concentric" meant it was only a U.S.
> territorial
> >DGPS system. Its been adopted over a large part of the world. As to
> coverage, well that's
> >up to each individual area to do on their own.
>
> Well, us people in the newer ex-british colonies are sort of disadvantaged
> when it comes to dGPS infrastructure... Whereas the USA has probably 100
> stations, Australia has less than 10 operational stations, for a country
> about the same size, with more coast line.... I personally would call it
> northern-hemisphere-centric myself... It looks like 90% of stations are in
> the north, and most are in the west.... So us poor people in the
> south-eastern quadrant are left out :-)

My point continues to be lost...

It is not up to the U.S. to finance DGPS stations throughout the world.... fact of the matter is,
most of the world is freeloading off the present U.S. owned GPS satellites.

My point was that the "U.S. Coast Guard longwave MSK type DGPS system" works many places in the world with the same receiver. I can take my CSI SBX-2 DGPS receiver board,
and have it work on the Detroit MI USA DGPS station OR one of the stations in Australia with
no intervention on my part.

Hence, I don't consider the DGPS system in question to be "US concentric" at all. Even if it
were, I think some consideration needs to be made regarding who invested the millions
of dollars to make it work.

Now directly addressing your problem, have you considered setting up your own

MSK DGPS station(s)? In the U.S. we have a license free band from 160khz-190khz that I used to play around with alot in my younger days. Building a transmitter for that

range (well 200-350 in the case of DGPS) is not that hard. Couple that with the TAPR DGPS board and a little extra firmware and I think you'd have the makings of a DGPS station. Now with the apparent lack of DGPS coverage in Australia, I'd think

your radio authorities might be a bit liberal in assigning experimental licenses for you.

Seems like a good cause for a ham club.... might even get some funding from the government

to offset you expenses. Make them solar powered, maybe 10 watts or so transmitters, 50

foot helical loaded antennas.... should give maybe a 10 mile range or so.... or go higher in power

if you have commercial mains available and/or bigger antenna.

BTW, WAIS is presently being tested now.... not sure if Australia is in the footprint, but this

maybe the reason for the lack of longwave DGPS stations..... they won't be as needed in the future.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 13:59:27 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA27470

for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 13:59:27 -0500 (CDT)

Date: Sat, 8 Apr 2000 13:59:4

Subject: [aprsspec] ? SSID Path implementation.

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: "Marco Savegnago" <msave@tin.it>

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

Sender: bounce-aprsspec-11589@lists.tapr.org

Message-Id: <LYR11589-76170-2000.04.08-13.59.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

Hello, I'm trying to understand the SSID Path routing method as implemented in the TM-D700.

There is not any digipeater in my area that implement the SSID Path method for routing the UI frame with another firmware, I never found in the APRS protocol specification how the method work exactly, and I want to be sure that my observation is correct and this is how the protocol must be implemented.

First the SSID Path routine in the D700 must be enable with the command UISSID and digipeater ON.

I've observed that when UISSID is ON the digipeater repeat all the UI frame addressed to ANY CALL with SSID > 0 (not only the mycall or other generic call) and repeat as follow:

>From SSID > 0 and SSID < 8

The frame will be repeated with the SSID of destination decremented by one and the call of the digipeater will be put in the via list.

Example:

A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-6):

IW3FQG>APRS-7:

will be repeated to:

IW3FQG>APRS-6, DIGI*:

With SSID > 8 the translation rules is different because there is the direction rule.

If SSID is equal to 8 (North direction)

If the digipeater listen an UI frame addressed to ANY call with ssid = 8 it repeat the frame, put the SSID of destination to zero, put the digipeater callsign in the via list and attach to this if available the path for North direction (NPATH parameter in D700).

Example:

A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-8, NPATH in the

digi is set
to NORTH):

IW3FQG>APRS-8:

will be repeated to:

IW3FQG>APRS,DIGI*,NORTH:

If SSID is equal to 12 (North direction)

If the digipeater listen an UI frame addressed to ANY call with
ssid = 12 it repeat the frame, put the SSID of destination the same as
received,
put the digipeater callsign in the via list and attach to this if
available the path for North direction (NPATH parameter in D700).

Example:

A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-12, NPATH in the
digi is set
to NORTH):

IW3FQG>APRS-12:

will be repeated to:

IW3FQG>APRS-12,DIGI*,NORTH:

The same rule is valid for South (SSID 9,13) East (10, 14) and West (11,
15).

I've observed that in all cases if the frame is sent with a digipeater the
via
path (es: APRS-8 VIA DIGI) the frame is not repeated.

IW3FQG>APRS-8,DIGI:

Is not repeated by the digipeater.

Do you know if all these rules are correct?

Thanks in advance.

Marco IW3FQG

msave@tin.it

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 16:32:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02429
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 16:31:57 -0500 (CDT)

Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76200-2000.04.08-16.31.55--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 08 Apr 2000 17:30:48 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Version 2.0, the "vision thing"
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EFA508.D6610A55@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi all:

I think a limited set of goals are outlined for APRS version 1.0, but the world has changed substantially since APRS was conceived.

It might be worthwhile to consider the "vision" of APRS before proceeding on to version 2.0. Vision in the sense of seeing the future direction of the world, and setting some specific goals here.

It would be helpful here to have some discussion from members of the APRS-WG, who with one exception, have not participated very much in an open forum discussing the future of amateur AVL.

I've got a few things to throw out, while not goals, might get things started with

APRS version 2.0. Lots of this has already been discussed here.

1. Backwards compatibility should not be a major issue.
2. Reduce the number of protocols... I think there are 4 or 5 ways to say the same thing now. Maybe just standardize on compressed format or something.
3. What is the purpose of APRS? List a bullet sheet in decreasing order of importance.

This will be useful in making decisions as a weighting factor.

4. Have extensions for balloons/sats to accommodate there increased height/speed *accurately* while not overly impacting terrestrial operations (maybe a 16 bit field for balloons/sats where as terrestrial only requires 8 bit)
5. Adopt or suggest a broadcast protocol on different frequencies. Maybe adopt the PACSAT method for this.
6. Come up with a "official" slotted protocol for all GPS equipped trackers
7. Adopt a "APRS time protocol" be it internet based or over the air based.
8. Do we really need AX.25? At least redefine the APRS protocol so it is transport method independent.
9. Consider the big picture. How can the APRS model be made attractive to other users within amateur radio, such as DX cluster, weather, convers, etc. Any "one to many" type use.

I'm sure there is more, but first and foremost we need to get a idea of the Vision...

what are we trying to accomplish? What is most important and what is least important?

How is the world and amateur radio changing? How could APRS/AAVL be made more attractive to power users?

I'd like to see what people think, in particular the members of the APRS-WG.

Thanks

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 17:38:06 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04887
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 17:38:02 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76211-2000.04.08-17.37.34-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 08 Apr 2000 18:35:18 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <200004082138.RAA24207@raptor.netrox.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EFB426.10EE36D6@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve:

Steve Dimse wrote:

> Well, many IGates have minimal RF capabilities, and do not have a high
> altitude. Even so, I'd be hard pressed to call 2 hops a long path, but
> that is just semantics, it really doesn't matter.

2 hops through 1000 foot digi's in urban areas when a I-gate is 0 hops
away is to long of a path. Conversely, 5 hops in a rural area to get to
the closet I-gate is OK. One has to be pragmatic here, better yet the
software should do it for one. The point is every station, and I-gate
has DIFFERENT RF capabilities. There is no standard amateur
station. Hence the smart software should deal with these issues.

And yes, IT DOES MATTER. Read some of the packet radio papers/
books I cited earlier.

> >I'll try and find Tom Clark's and Bob's article on the subject if you
> >promise me you'll
> >read it. I think Tom's was in a early PSR.
> >
> Don't bother, I really don't have time. Please understand, I'm not saying
> these are bad ideas, or wrong ideas. This is just not something that
> interests me enough to spend my precious time on.

Oh, so the "radio" side of packet radio doesn't interest you? Hmmmmmm.....
Certainly your choice to ignore this stuff, but as you can see, many people hold your words in godlike esteem. Understand the power that this holds and weigh what you say with what you know to be true. I DO NOT fault you for this, but you'd be amazed at the amount of private hate mail I get supporting you whenever I question you on these types of issues. Yet you say these same issues don't interest you.... Life ain't fair, is it?

> Perhaps I wasn't specific enough in what I was asking, allow me to
> rephrase:
>
> Is anyone actually working on implementing these ideas in a working
> system for APRS users? This was the question I really am interested in.

And perhaps I wasn't specific enough. YOU (and others) are working on these sort of things.... you just don't know it. It would be trivial (in some cases) to adopt the prior art I am pointing out to you. That's why I am posting this stuff here.... in the hopes those that already "have the wheel" can adopt them. I just don't see the need to completely re-invent the wheel here for what is simply good amateur practice.... yet increasingly it is becoming apparent to me that is what is needed.

It simply would be much easier to do this within the system as opposed to completely scrapping the system we have and starting over. This is why I continually nudge you and other APRS leaders to adopt best practices of other packet radio amateur radio groups..... be they U.S. packet hams of 10 years ago or the Europeans today. We simply don't need to keep placing our hand on the stove to realize its hot.

My interest really is to improve the system and not to throw rocks at programmers or the APRS-WG, as you seemed to imply in the close of your last message. But if people are closed minded, or unwilling to discuss these issue in an open forum, I'm sure it could come off looking like that. But if you really knew me, you'd know my intent was positive.

But to more directly address your question, yes, I know of one party experimenting with APRSserve RF data broadcasting. It is up to them to disclose it to you which I'm sure they will if and when they are successful. The other items WOULD require cooperation within the APRS community to implement, and hence I know of no-one doing them. To paraphrase your comment of "build it and they will come", simply cannot be the case without some corporation within the community, in particular when we are discussing networking issues and/or smart software. These things really need to be addressed more formally, something I'm suggesting be done.

> At some point though I had to say enough, pick a set of tools, and Just

> Do It.

I believe the first sentence of my earlier posting said this was future food for thought. Its up to each person to open their mind to others ideas.

> If APRS were a commercial system generating millions of dollars a year,
> then there could be a core of hired programmers that did what they were
> told. In a world like this, it is easy to turn vision into function.

Hmmmm.....the business model of Linux keeps coming to mind. This also tells me that more often then not, we are are own worst enemy. Many "hobby" or open source things rival or exceed the commercial world. For all the supposed "warts" of APRS, it really DOES rival some things in the commercial world..... in particular YOUR stuff.

Don't sell yourself short....

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 18:04:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA05725
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 18:04:40 -0500 (CDT)
Message-Id: <LYR11589-76216-2000.04.08-18.04.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Sat, 08 Apr 2000 17:56:32 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
Cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-76211-2000.04.08-17.37.34--dvanhorn#cedar.net@lists.tapr.org>
References: <200004082138.RAA24207@raptor.netrox.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.0.1.20000408173508.03a48320@mail.cedar.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

>2 hops through 1000 foot digi's in urban areas when a I-gate is 0 hops
>away is to long of a path. Conversely, 5 hops in a rural area to get to
>the closet I-gate is OK. One has to be pragmatic here, better yet the
>software should do it for one. The point is every station, and I-gate
>has DIFFERENT RF capabilities. There is no standard amateur
>station. Hence the smart software should deal with these issues.

This may be obvious to some, but it seems to me that what we're not saying
in the digi path is what we are trying to do. IOW, We're telling the
system what to do, not letting the system decide how to accomplish a goal
within the local environment.

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB00/VQIFlGDz1l6VWEQJeKwCeKH9S3v1E4fCMc7ISFS0k712x408AoJXu
vGBSfghE01vdWq8p53g0nD3b
=oBgf
-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 21:13:51 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA10921
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 21:13:49 -0500 (CDT)
Message-ID: <LYR11589-76236-2000.04.08-21.13.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <200004082138.RAA24207@raptor.netrox.net>
<LYR13439-76211-2000.04.08-17.37.34--ssampson#usa-site.net@lists.tapr.org>
Subject: [aprsspec] Re: IGate placement
Date: Sat, 8 Apr 2000 21:13:44 -0500
Organization: USA Site Network

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000701bfa1c9\$3b722ce0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Certainly your choice to ignore this stuff, but as you can see, many
> people hold your words in godlike esteem.

I don't think that's possible in Ham radio :-). The "rasberry" seems to predominate most communication.

I think one of the responsibilities of a digi owner is to moderate the data onto a fixed/limited bandwidth. It really is an individual Ham responsibility, but we shouldn't depend on that. There is enough tools in a digi to force moderation.

While I don't think you will be able to get any of the APRS authors to take on any tasking or personal ideas; what you are proposing is something that would make a great theoretical paper, or even a scientific study. One that may even be adopted. That's where I would recommend that you use your energy.

Best Regards,
Steve/k5okc

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 21:36:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA11864
 for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 21:36:05 -0500 (CDT)
Subject: [aprsspec] Re: [aprssig] Re: IGate placement

Date: Sat, 8 Apr 2000 22:35:17 -0400
From: Steve Dimse K4HG <k4hg@aprs.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Message-ID: <LYR11589-76237-2000.04.08-21.36.00--
lyris.aprsspec#tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <1256892741-1275915@aprs.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 4/8/00 6:35 PM Jeff King (jeff@aerodata.net) wrote:

>
>> >I'll try and find Tom Clark's and Bob's article on the subject if you
>> >promise me you'll
>> >read it. I think Tom's was in a early PSR.
>> >
>> Don't bother, I really don't have time. Please understand, I'm not saying
>> these are bad ideas, or wrong ideas. This is just not something that
>> interests me enough to spend my precious time on.
>
>Oh, so the "radio" side of packet radio doesn't interest you? Hmmmmmm.....
>Certainly your choice to ignore this stuff, but as you can see, many
>people hold your words in godlike esteem. Understand the power that this
>holds
>and weigh what you say with what you know to be true. I DO NOT fault you
>for this, but you'd be amazed at the amount of private hate mail I get
>supporting
>you whenever I question you on these types of issues. Yet you say these
>same issues don't interest you.... Life ain't fair, is it?
>
It is not my desire to be a god. If I were, I would know everything about
everything, and with nothing left to learn, I'd probably be bored. One
could only spend so much time looking into Cameron Diaz's bedroom... My
statement was not that the issue was insignificant, or that I didn't care
at all. The statement was that the issue didn't interest me enough to dig
into the subject. I've learned I can't learn everything, I have to limit
my involvement in some areas in order to achieve the results I want in
others.

Today I did not say that these were bad or unworthy ideas, or belittle

them in any way. To save you the trouble of digging through messages, in the past, when I have voiced opposition to such proposals, it has generally been because my opinion is that such a networking scheme would be time-consuming to develop, expensive to deploy, and not result in enough benefit to the average ham to make them want to participate. I expressed those thoughts as my personal opinions and did my best to argue those points, but failed to convince you. I am no longer arguing these points, because to continue to debate is unproductive...I will never convince you, and to debate further would mean I would have to learn more about the subject, see the previous paragraph.

Anyway, I would, honest and truly, rather see you prove me wrong by developing a better system, than to convince you it cannot be done.

>It simply would be much easier to do this within the system as opposed
>to completely scrapping the system we have and starting over. This is
>why I continually nudge you and other APRS leaders to adopt best practices
>of other packet radio amateur radio groups..... be they U.S. packet hams
>of 10 years ago or the Europeans today. We simply don't need to keep
>placing our hand on the stove to realize its hot.
>

OK, but again, what is needed is concrete examples, not references to 10 year old papers. Develop a real protocol that implements these ideas, and present it. The test system need be nothing more than a couple ht digis and a few mobiles. No general concepts, vague references, or volunteering of other's labor. Results!

>> If APRS were a commercial system generating millions of dollars a year,
>> then there could be a core of hired programmers that did what they were
>> told. In a world like this, it is easy to turn vision into function.
>

>Hmmm.....the business model of Linux keeps coming to mind. This
>also tells me that more often then not, we are are own worst enemy.
>

"The business model of Linux"? A handful of people with business savvy, smart enough to not alienate the open source community with promises and a few IPO shares, smart enough to ride the crest of anti-Microsoft sentiments, smart enough to con Wall Street into valuing companies that have never made a penny of profit in the billions, and finally, on their knees every night praying that the .com bubble doesn't burst before their lockout period ends.

Perhaps the Linux open source community is the example you wish to put forward. A group of people who code for the sheer joy of it, without worrying about the financial aspects, and producing a superior product. That's great, I'm all in favor (with actions and not just words), but there is a big difference between the Linux world and the APRS world. In Linux, the programmers are the consumers, while in APRS the programmers

are a distinct minority. And even in Linux, many good projects wither and die due to a lack of participation.

There are simply too few programmers in APRS to produce the critical mass that Linux has achieved. Look at aprsd...the source has been available for well over a year. How many people have contributed? What about xastir? I keep meaning to ask Frank if anyone has joined him on the project. (You there Frank?) Dozens of people were clamoring for an open source client, but once one was released they seemed to just blend into the woodwork. Most of them really wanted a free client, not an open source one. Even the Pic-E...several hundred have sold, but only a couple people have released new programs for it.

I say the answer to making the APRS community more Linux-like is to develop new talent, not to try to direct the efforts of those already contributing. I try very hard to encourage people to join in the fun, they do not know what they are missing.

>Many "hobby" or open source things rival or exceed the commercial world.
>For all the supposed "warts" of APRS, it really DOES rival some things
>in the commercial world..... in particular YOUR stuff.

>

>Don't sell yourself short....

>

I'm not selling myself at all ;-)

The difference between hobby and commercial environment is not in the quality, and I never said or implied that APRS was in any way second rate to commercial systems. The difference is in the motivation of the programmers. I think we'd agree that love is a better motivator than money when it comes to coding. You have to love what you are working on to do an outstanding job, and that means the freedom to work on what interests you, not what interests other people.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 21:47:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA12230
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 21:47:57 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 8 Apr 2000 22:46:43 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
In-Reply-To: <LYR11586-76200-2000.04.08-16.31.55--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-76239-2000.04.08-21.47.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004082244500.370-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 8 Apr 2000, Jeff King wrote:

> It might be worthwhile to consider the "vision" of APRS before proceeding on
> to version 2.0.
>
> 1. Backwards compatibility should not be a major issue.

Then you probably need to plan on using a different frequency than
144.39...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 22:22:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA13195
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 22:22:15 -0500 (CDT)
Message-ID: <LYR11589-76247-2000.04.08-22.22.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-76200-2000.04.08-16.31.55--ssampson#usa-
site.net@lists.tapr.org>

Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
Date: Sat, 8 Apr 2000 22:21:44 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <003601bfa1d2\$bb5e8080\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> 8. Do we really need AX.25? At least redefine the APRS protocol so it is
transport
> method independent.

The obvious transport protocol would be TCP/IP, with probably UDP as the
datagram protocol. I think as long as you replace the Ethernet data-link layer
with
something relevant to Hams; such as AX.25, or any callsign based substitution
of source and destination addresses, the result would be an instant winner.

Given UDP, it would simplify some of the low level programming, as most OOP
languages have a UDP object already, and it is a standard protocol. There are
even various compression classes ready made.

This would also facilitate a cryptographically strong authentication, as it is
quite
easy to spoof, or steal/modify an APRS object currently.

The two books on my Ham desk are by Elliotte Rusty Harold, and published by
O'Reilly: Java Network Programming, and Java I/O. The network one is three
years old now, and becoming obsolete, but both provide enough information to
just about plug and play any transport mechanism your heart desires :-) I'm
sure C++ Builder or Visual Basic is similarly feature rich. The bad ole C days
are over. No more grow your own...

Best Regards,
Steve/k5okc

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 22:45:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA13844
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 22:45:15 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76252-2000.04.08-22.45.08--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 08 Apr 2000 23:43:24 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
References: <LYR13439-76200-2000.04.08-16.31.55--ssampson@usa-
site.net@lists.tapr.org> <LYR11601-76247-2000.04.08-22.22.03--
jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EFFC5C.EEF2F836@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Sampson wrote:

> > 8. Do we really need AX.25? At least redefine the APRS protocol so it is
> transport
> > method independent.
>
> The obvious transport protocol would be TCP/IP,

No, not at all. Remember, this is going over the air on a data limited channel.
The less overhead the better..... I think a tcp/ip frame has at least 40 bytes in
overhead.... if this was the only choice, I would stick with ax.25.

Or possibly are you suggesting pure IP over the air? There was a driver for NOS that allowed you to do this.

I was thinking something a little more micro controller friendly and more tailored to the data at mind. tcp/ip is a real challenge on a little microcontroller, although maybe we shouldn't be too worried about this?

But we are getting into specifics, I was more interested in what people want to do with AAVL. The specifics can come later.

For example, what are the primary uses of amateur avl/APRS? AVL, chit chatting, sending beacons, sending messages. If you know the order of importance here, you can use these items to help decide issues relating to the protocol.

> This would also facilitate a cryptographically strong authentication, as it is
> quite
> easy to spoof, or steal/modify an APRS object currently.

This actually is quite a good idea. I think as APRS extends out past the ham market into the hacker market, people will appreciate these things more.

73

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 22:45:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA13864
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 22:45:50 -0500 (CDT)
Message-ID: <LYR11589-76253-2000.04.08-22.45.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-76237-2000.04.08-21.36.00--ssampson#usa-
site.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
Date: Sat, 8 Apr 2000 22:45:56 -0500
Organization: USA Site Network
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <003f01bfa1d6\$1cf736e0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

"Steve Dimse K4HG" wrote:

[snip many excellent points]

> There are simply too few programmers in APRS to produce the critical mass
> that Linux has achieved. Look at aprsd...the source has been available
> for well over a year. How many people have contributed? What about
> xastir? I keep meaning to ask Frank if anyone has joined him on the
> project. (You there Frank?) Dozens of people were clamoring for an open
> source client, but once one was released they seemed to just blend into
> the woodwork.

Open Source to me, as a minimum, has a CVS or like based method of making changes. If you must rely on the original author to fold in your changes, it becomes unwieldy. For example, I tried to submit some changes to xastir that would allow it to work with a non-linux system, but after two upgrades none of the code was used. I just assumed that the author wasn't interested, and I moved on. I did look into the possibility of developing the program in my own way, but having spent some time in X windows applications development, and Linux uses the ancient 1.0 Motif, you have to compare that to Visual Basic or Java as to where you want to go in life.

> Most of them really wanted a free client, not an open
> source one. Even the Pic-E...several hundred have sold, but only a couple
> people have released new programs for it.

Most bought it to transport their GPS NMEA information. There really is a limited application for these. What are you expecting would develop? Cruise control interfaces? Maybe a city wide police radar detector emitter/dBm display... :-)

> I say the answer to making the APRS community more Linux-like is to
> develop new talent, not to try to direct the efforts of those already

> contributing.

Well put. If you can't program, you can at least do basic research and publish something that others can enjoy. OK, I'll be quiet again now...

Best regards,
Steve/k5okc

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 22:47:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA13902
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 22:47:21 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76255-2000.04.08-22.47.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 08 Apr 2000 23:45:56 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
References: <Pine.GSO.4.05L.10004082244500.370-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38EFFCF4.DF799D3C@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Sat, 8 Apr 2000, Jeff King wrote:

>

> > It might be worthwhile to consider the "vision" of APRS before proceeding on
> > to version 2.0.
> >
> > 1. Backwards compatibility should not be a major issue.
>
> Then you probably need to plan on using a different frequency than
> 144.39...

Thats not my concern.

I'd actually rather here from you what you think APRS should be.... what is your
"vision" for it..... its evolution. This would frame any discussions of APRS
version
2.0 even better then specifics..

Thanks

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 8 22:55:06 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA14279
for <lyris.aprsspec@tapr.org>; Sat, 8 Apr 2000 22:55:04 -0500 (CDT)
Message-ID: <LYR11589-76256-2000.04.08-22.55.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-76200-2000.04.08-16.31.55--ssampson#usa-
site.net@lists.tapr.org> <LYR11601-76247-2000.04.08-22.22.03--
jeff#aerodata.net@lists.tapr.org> <38EFFC5C.EEF2F836@aerodata.net>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
Date: Sat, 8 Apr 2000 22:54:55 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <004501bfa1d7\$5e284040\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

40 bytes sounds like a lot at 1.2 kbps, doesn't really matter
at 4.8 kbps on up to 1.6 Mbps. We are talking about using
Proxim Symphony Spread Spectrum in our cars and central
nodes aren't we? :-)

Best Regards,
Steve/k5okc

> > The obvious transport protocol would be TCP/IP,
>
> No, not at all. Remember, this is going over the air on a data limited
channel.
> The less overhead the better..... I think a tcp/ip frame has at least 40 bytes
in
> overhead.... if this was the only choice, I would stick with ax.25.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 00:28:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA24815
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 00:28:34 -0500 (CDT)
Message-ID: <LYR11589-76278-2000.04.09-00.28.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <Pine.GS0.4.05L.10004082244500.370-100000@arctic>
<LYR13439-76255-2000.04.08-22.47.15--ssampson#usa-site.net@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
Date: Sun, 9 Apr 2000 00:28:20 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <008101bfa1e4\$6b164420\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> > > 1. Backwards compatibility should not be a major issue.
> >
> > Then you probably need to plan on using a different frequency than
> > 144.39...
>
> Thats not my concern.

Correct. 144.39 should be considered consumed. At 1.2 kbps there is
no room for other than minor changes.

Having played a bit with the 4.8 kbps soundcard stuff, I think this is the
way to go. You don't get into the problems of the G3RUH modem and
its down to DC requirement, although you still need to bypass the audio
filters (direct inject, discriminator take-off). This is the speed that most
Police use in their cruisers for data terminals, for example.

There's a lot of spectrum out there, and no use piling up with experimental
stuff that may never be as viable.

Best Regards,
Steve/k5okc

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 9 01:36:07 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id BAA26488
for <lyris.aprsspec@tappr.org>; Sun, 9 Apr 2000 01:36:06 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76295-2000.04.09-01.35.58--
lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Sun, 09 Apr 2000 02:34:23 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <LYR13439-76237-2000.04.08-21.36.00--ssampson#usa-site.net@lists.tappr.org> <LYR11601-76253-2000.04.08-22.45.44--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <38F0246F.623158A1@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Sampson wrote:

> Well put. If you can't program, you can at least do basic research and
> publish something that others can enjoy.

Here is something I wrote on the topic in PSR Isusue 56 October 1994:
"Proposal: A High Speed Multicast-capable Packet System for the 219MHz
Band" by Jeff King WB8WKA (but scales to other bands just as well)

Now, writing is all well and good, but nobody reads the stuff it appears.

Clearly, one must do more then write, one must be a RF expert and a software expert.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 9 02:57:39 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA28284
for <lyris.aprsspec@tappr.org>; Sun, 9 Apr 2000 02:57:26 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76306-2000.04.09-02.57.13--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 09 Apr 2000 03:53:48 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>,
APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <1256892741-1275915@aprs.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <38F0370C.9ED7A277@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Again, I preface this as food for thought, and not any great desire to debate you.

First, one clarification.

Steve Dimse K4HG wrote:

> Yet you say these
> >same issues don't interest you.... Life ain't fair, is it?
> >
> It is not my desire to be a god.

It may not be, but you have a very high profile position in APRS. People tend to look to you for guidance...like it or not. With that comes some responsibility.

Anyways, lets get back to what I was saying, which I'm not sure was as clear as it should have been.

What is at hand required little RF networking knowledge, but a suggestion of "hooks" you could put into FINDU to improve RF messaging delivery at some future date. Hence my prefacing this discussion with "food for thought". I just want you to think about this as you are in the sole position (at this point in time) to implement this. Even if you weren't, your corporation would be helpful.

First the statement of issue.

1. You stated that for various reasons you felt it wise to limit the number of internet gateways.
2. I stated that I felt it better to embrace the internet, and have as many internet gateways as possible, even if they heavily overlapped.

Yet the issues you bring up, management issues, are good ones.

I am suggesting using FINDU to qualify internet gateways. That is, over time, FINDU (or the database) can determine who is on all the time, who has what RF footprint, and who is best able to deliver a message to a particular station. Basically to determine a "weight" in choosing who to IGATE a message to.

While I won't bore you with the technical details, this boils down to something called "least power routing" which is a common industry standard. In the case of hams, least power would boil down to try and reduce the number of digi's in the path. Not only is this good amateur practice, but it also increases the chances of getting a message through.

You target the message to the closet IGATE that has the highest "weighting" factor. This can be partially determined from the observed RF foot print from FINDU receiving as well as some self reporting issues like power and ERP.

Now, back to management issues. All this would be done automatically. The software would chose the best path to the station depending on the weighting information it evaluated. In this way, your "choice" of the internet gateway would not be based on arbitrary political considerations, but on sound engineering/performance data. If for example, a station wasn't full time, its weighting score would decrease. If a station was one or more digi hops from the messaging station, its weighting would decrease.

The whole point being here to reduce the impact on the frequency and increase the reliability of message delivery.

I realize this might be a bit complicated, but it is perfectly workable. I was just asking

you consider some of these issues in your design of "FINDU" so that someday it might be implemented. In programming terms, I was just asking for the "hooks", be it at your site, or remotely, be considered.

Also, other smart routing things might be considered eventually.

While your correct, I've had alot of ideas that go against your idea of what is practical, I don't think this is that outlandish... in particular since I'm just asking you to consider it in your design of FINDU and/or APRSERVE.

That's it. Agree or disagree, I've spoke my piece. A few other things.

> >Hmmm.....the business model of Linux keeps coming to mind. This
> >also tells me that more often then not, we are are own worst enemy.
> >
> "The business model of Linux"?

Nothing to do with IPO's. You misunderstand me. Its how Linux gets done and was in place long before any Linux IPO. Other then that, I think you got it.

> Perhaps the Linux open source community is the example you wish to put
> forward.

Yes.

> A group of people who code for the sheer joy of it, without
> worrying about the financial aspects, and producing a superior product.
> That's great, I'm all in favor (with actions and not just words), but
> there is a big difference between the Linux world and the APRS world.

Yes, indeed there is.

> In
> Linux, the programmers are the consumers, while in APRS the programmers
> are a distinct minority. And even in Linux, many good projects wither and
> die due to a lack of participation.

You really need to be fair. Up until a year ago, I'm told on the newsgroups, anyone that considered doing a APRS port was threatened with lawsuits (I think you might

have been the one saying this). To this date, there is only one open source APRS display application, and its still in Beta (and doing damn well).

> There are simply too few programmers in APRS to produce the critical mass
> that Linux has achieved.

In the context of the above statement, I consider APRS ONE YEAR OLD as May 1999 was the time the statement was made anyone could develop for APRS. When Linux was one year old, it was more MINIX then LINUX. It was just barely available then. Few even knew it existed.

> Look at aprsd...the source has been available
> for well over a year. How many people have contributed?

Don't know. Its a specialized application, with only 20-40 people running it so I suspect very few.

> What about
> xastir?

Judging by the development list, it appears quite a few have contributed. Some real sharp people on that list and the project seems to be moving along real nice. If you not on the development list, it is:

<http://okcforum.org/mailman/listinfo/xastirdev>

> I say the answer to making the APRS community more Linux-like is to
> develop new talent, not to try to direct the efforts of those already
> contributing.

Yes, but more so collaboration. I help you in areas you are weak, you help me in areas I am weak. And so it goes. I have a itch, I scratch it, that kind of thing. It all builds up. So far, the ONLY one who has adopted the model fully is XASTIR. And clearly it shows.

> I think we'd agree that love is a better motivator than
> money when it comes to coding. You have to love what you are working on
> to do an outstanding job, and that means the freedom to work on what
> interests you, not what interests other people.

I'm sorry I came off that way as I feel the same way you do. If I were to offer a idea
up you, I'd rather you say, yes that might be a good idea
then to come off trying to dictate what you should do. I don't think your saying
you want to work in a vacuum, so if I see a potential better way to do something,
how do you suggest I present it? (assuming I'm not capable of implementing it
myself)

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 04:10:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA09758
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 04:10:41 -0500 (CDT)
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
Date: Sun, 9 Apr 2000 05:07:58 -0400
From: Steve Dimse K4HG <k4hg@aprs.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Message-ID: <LYR11589-76314-2000.04.09-04.08.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <1256869180-925329@aprs.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/9/00 3:53 AM Jeff King (jeff@aerodata.net) wrote:

>1. You stated that for various reasons you felt it wise to limit the number
>of internet gateways.

>

In the context of things as they are.

>2. I stated that I felt it better to embrace the internet, and have as many
>internet gateways as possible, even if they heavily overlapped.

>

In the context of contemplating an indefinite future.

>I am suggesting using FINDU to qualify internet gateways. That is, over time,
>FINDU (or the database) can determine who is on all the time, who has what
>RF footprint, and who is best able to deliver a message to a particular
>station.

This is not a few hooks, it turns the system on its ear. You propose taking the decision to IGate out of the hands of the individual clients and placing it in a central server.

>Basically to determine a "weight" in choosing who to IGATE a message to.
>

>While I won't bore you with the technical details, this boils down to
>something
>called "least power routing" which is a common industry standard. In the case
>of hams, least power would boil down to try and reduce the number of digi's
>in the path. Not only is this good amateur practice, but it also increases

To determine this, you need to do even more modification to the system. The internet feed is heavily filtered of dups. The first one to APRServe gets through. The path of the packets can be different between first.aprs.net and second.aprs.net, each server does its own filtering. Your judging program needs to have access to all the dupes, this simply does not exist within the present system. It also needs to know which IGate recieved each packet, information which is not conveyed in the present system.

Next you need to get the information to an IGate that it is the designated IGate for a packet. You might do this in advance, continually broadcasting messages giving the IGate for each station, or wait for a packet to appear, then modify it with IGate info. The former is wasteful of bandwidth, the later means the judge needs to either be inserted in the stream or inject a flagged packet into the stream in such a way that it does not get filtered.

Each IGate program must be modified to accept commands from the judge, rather than make their own decisions.

You need to make the system redundant, so that internet messaging does not fail when the judge goes down.

>be implemented. In programming terms, I was just asking for the "hooks",
>be it at your
>site, or remotely, be considered.
>

If I'm missing an implementation that is really just a few hooks, please bore me with the details. I think this proposal would require a redesign of the network, a complete rewrite of APRServe, and large changes to every program that includes IGate code. Unless it was done right, it could easily decrease the reliability of the internet messaging.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 05:16:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA11137
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 05:16:07 -0500 (CDT)

From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"

Date: Sun, 09 Apr 2000 13:15:19 +0300

Message-ID: <LYR11589-76317-2000.04.09-05.16.06--

lyris.aprsspec@lists.tapr.org>

References: <LYR13206-76200-2000.04.08-16.31.55--

Paul.Keinanen@sci.fi>

In-Reply-To: <LYR13206-76200-2000.04.08-16.31.55--

Paul.Keinanen@sci.fi>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <umi0fsk63mtt3b0s03om4lsoorm0kd1vhj@4ax.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Sat, 08 Apr 2000 17:30:48 -0400, Jeff King <jeff@aerodata.net>
wrote:

>Hi all:

>

>I think a limited set of goals are outlined for APRS version 1.0, but the world
has

>changed substantially since APRS was conceived.

>

>It might be worthwhile to consider the "vision" of APRS before proceeding on
>to version 2.0. Vision in the sense of seeing the future direction of the world,
and

>setting some specific goals here.

>

>It would be helpful here to have some discussion from members of the APRS-WG,
>who with one exception, have not participated very much in an open forum

>discussing the future of amateur AVL.

>

>I've got a few things to through out, while not goals, might get things started with

>APRS version 2.0. Lots of this has already been discussed here.

* Make it an international standard. This would require at least:

- Support for international units in messages.

While the current situation using only imperial units is not as bad as it seems to be, since only by lucky coincidences (e.g. knots having greater resolution than m/s or feet having greater resolution than m) it is possible to transfer most measurements taken in SI units over a link using imperial units and display the values in SI units, without modifying the numeric value, provided that exactly the same conversion factors are used and exactly the same rounding rules are applied all over the network. Thus, the exact conversion factors and rounding rules should be clearly spelled out already in version 1.0.

However, other situations are not so lucky (e.g. measurements taken in km/h is transferred over link with mph, will not always produce a correct displayed result).

Thus, the unit should always be included in the message (even if it is a single bit telling that all measurements in this message are either SI or imperial) and each forwarding station should include this information and not modify the values. Only the final display station should do the conversion to the user selected unit, thus avoiding any unnecessary rounding errors.

- Support for non-US-ASCII characters.

The transmission medium must be 8 bit clean.

The problem is which character set to use. It would be tempting to use some version of ISO-8859-x, but this would require that the code page identifier to be included with each message carrying textual information. In border areas it would be quite normal to use several code pages.

It would be a better idea to go directly to Unicode and code it as UTF-8 for transmission. In UTF-8, the traditional US-ASCII characters would still occupy only 1 byte/character, but for other characters 2 or 3 bytes/characters will be required. It is clear that no application would be required to support the more than 40000 Unicode characters, but regional subsets can be created. For Europe, there are three defined subsets (MES-1, MES-2 and MES-3 with about 500, 2000 and

4000 characters respectively) that all support the Latin, Cyrillic and Greek scripts. A device not capable of displaying even these could use some fallback tables to convert the text to local 8 bit or even to 7 bit US-ASCII for displaying it.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 05:34:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA11471
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 05:34:18 -0500 (CDT)
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
Date: Sun, 9 Apr 2000 06:33:48 -0400
From: Steve Dimse K4HG <k4hg@aprs.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Message-ID: <LYR11589-76319-2000.04.09-05.34.20--
lyris.aprsspec@tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <1256864031-1235259@aprs.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/9/00 6:15 AM Paul Keinanen (keinanen@sci.fi) wrote:

>- Support for international units in messages.

>

This is a client program issue. It doesn't matter if the on-the-air protocol speed is in conch shells per lunar month, as long as everyone knows what the units are, and the client program converts it into units the user can understand.

I see no reason to complicate the on-the-air protocol. Suppose this were implemented...would you display the results in the units specified by the sender or convert some and not others so the units were the same? The former is much more confusing IMHO, the user expects a column of numbers

to be the same units. If you are going to display all in the same units, why allow both on the air? Easier to save a bit, and convert all or none as the user desires.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 06:55:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA12725
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 06:55:03 -0500 (CDT)
Message-ID: <LYR11589-76324-2000.04.09-06.53.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-76237-2000.04.08-21.36.00--ssampson#usa-
site.net@lists.tapr.org> <LYR11601-76253-2000.04.08-22.45.44--
jeff#aerodata.net@lists.tapr.org> <38F0246F.623158A1@aerodata.net>
Subject: [aprsspec] Re: [aprssig] IGate placement
Date: Sun, 9 Apr 2000 06:52:24 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <004601bfa21a\$1236e4a0\$8e228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I wrote two magazine articles back in the early 90's. If you write it up magazine style, you don't really care, as you just want the \$50 per page...

What is attractive about APRS, is its simplicity. I use it because I like to keyboard chat, or keep track of WF6H-14 as he trucks across America, or follow KB4HRV's flights over Havana :-)

While I don't think there is any great need to modernize the programs, there are many areas, that now documented, show the limits of where it can/will be going. The igate can complicate things, but the current population is technical enough to manage their output, or if not, some local policeman will be sure to point you out at the next club meeting.

Best Regards,
Steve/k5okc

"You can learn a lot about a protocol at 30 bytes/sec thru-put"

> Now, writing is all well and good, but nobody reads the stuff it appears.
>
> Clearly, one must do more then write, one must be a RF expert and a software
> expert.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 09:50:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17698
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 09:50:55 -0500 (CDT)

From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
Date: Sun, 09 Apr 2000 17:48:44 +0300
Message-ID: <LYR11589-76396-2000.04.09-09.49.06--
lyris.aprsspec@lists.tapr.org>
References: <LYR13206-76319-2000.04.09-05.34.20--
Paul.Keinanen@sci.fi@lists.tapr.org>
In-Reply-To: <LYR13206-76319-2000.04.09-05.34.20--
Paul.Keinanen@sci.fi@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <sq21fs8l2cakvla2pts095o3342e6ckb0d@4ax.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Sun, 9 Apr 2000 06:33:48 -0400, Steve Dimse K4HG <k4hg@aprs.net> wrote:

>On 4/9/00 6:15 AM Paul Keinanen (keinanen@sci.fi) wrote:

>

>>- Support for international units in messages.

>>

>This is a client program issue. It doesn't matter if the on-the-air
>protocol speed is in conch shells per lunar month, as long as everyone
>knows what the units are, and the client program converts it into units
>the user can understand.

Provided that a suitable resolution is available in the transfer encoding and this has to do with the maximum value allowed. With too bad resolution, values can not be transferred transparently when using some specific source and display unit.

Assume a hypothetical speed encoding using unsigned binary values. Since Concord seems to be the only civilian object going over Mach 1, it would be natural to set the full scale to that speed. Thus, in an 8 bit system Mach 1.0 would correspond to transmitting numeric value 255, on a 12 bit system the max value would be 4095 and on a 16 bit system it would be 65535. Thus the resolution would be, when expressed in various speed units (use a fixed width font):

8 bit	12 bit	16 bit	
1.3	0.083	0.005	m/s
4.8	0.3	0.019	km/h
3.0	0.19	0.012	mph
2.6	0.16	0.01	knot

Clearly, the 8 bit system is inadequate, since you could not even get the unit digit correct in most cases. With 12 bits, speeds down to 0.1 m/s can be reliably transferred, which might be handy for tracking pedestrians, but the speed could only be reliably displayed to 1 km/h, 1 mph or 1 kt. With 16 bit, speeds with 0.01 unit resolution could be reliably transferred, which seems to be a bit of an overkill, unless you are tracking snails :-).

>I see no reason to complicate the on-the-air protocol. Suppose this were
>implemented...would you display the results in the units specified by the
>sender or convert some and not others so the units were the same?

That would be set by the user preferences in the display device.

Unless we are talking about intercontinental tracking, in practice the data generating device and the user display preference would be the same as the units used in that part of the world.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 10:06:29 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA18207
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 10:06:29 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 9 Apr 2000 11:05:40 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
In-Reply-To: <38EFFCF4.DF799D3C@aerodata.net>
Message-ID: <LYR11589-76397-2000.04.09-10.06.31--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004091039160.7836-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 8 Apr 2000, Jeff King wrote:

```
>>
>>> It might be worthwhile to consider the "vision" of APRS before proceeding
>>> to version 2.0.
>>>
>>> 1. Backwards compatibility should not be a major issue.
>>
>> Bob Said: Then you probably need to plan on using a different
>> frequency than 144.39...
>
> Jeff Said: Thats not my concern.
```

> I'd actually rather hear from you what you think APRS should be.... what is
> your "vision" for it..... its evolution. This would frame any
> discussions of APRS version 2.0 even better than specifics..
> Thanks
> -Jeff

Simple, something that works.

Something that allows use of what we have until everyone chooses to upgrade. I'm all for advancing the state of the art. It is unbelievable what we can do with digital and HAM radio. We are using probably less than 10% of our VHF spectrum.

See my 1994 article using the input channels of VOICE repeaters to deliver over 3 Mbytes of data per hour and yet not impact voice users on these same repeaters. With over 50 such channels on 2 meters alone, that's 150 Mbytes per hour without asking for a single new channel from frequency coordinators, and the repeaters are still never more than 1 second away from normal use by any existing voice user.

All we need is people doing things. If you build something that works, people will use it.

As for APRS, it's only packet. AX.25, UI frames. It's nothing new since 1978. It's only an application. Do not try to burden it with all the "things that could be...". We can tweak it, optimize it, but any step function radical change will probably need to seriously address backwards compatibility, or move to a different frequency.

That's what APRS had to do. No way would APRS be tolerated on existing networks had it not been for the general demise of packet anyway. APRS was NOT WELCOME back in 1992 and objected to by most all packet guru's at the time. Therefore we spun our own network...

I suspect such is the way of life...

Bob, WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 11:59:06 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21191
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 11:59:04 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 9 Apr 2000 12:57:55 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
In-Reply-To: <LYR11586-76396-2000.04.09-09.49.06--bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-76410-2000.04.09-11.59.00--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004091254590.9723-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 9 Apr 2000, Paul Keinanen wrote:

> Assume a hypothetical speed encoding using unsigned binary values.
> Since Concord seems to be the only civilian object going over Mach 1,
> <snip>
> Clearly, the 8 bit system is inadequate, since you could not even get
> the unit digit correct in most cases. With 12 bits, speeds down to 0.1
> m/s can be reliably transferred, which might be handy for tracking
> pedestrians, but the speed could only be reliably displayed to 1 km/h,
> 1 mph or 1 kt. With 16 bit, speeds with 0.01 unit resolution could be
> reliably transferred, which seems to be a bit of an overkill, unless
> you are tracking snails :-).

Thats why APRSdos uses LOG speed vectors for display and the compressed APRS format uses a LOG scale. It can resolve snail speeds and Concord speeds to the same geometric precision.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 14:25:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA25972
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 14:25:32 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76423-2000.04.09-14.25.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 09 Apr 2000 15:21:07 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <1256869180-925329@aprs.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38F0D823.676A2DCE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse K4HG wrote:

> On 4/9/00 3:53 AM Jeff King (jeff@aerodata.net) wrote:
>
> >2. I stated that I felt it better to embrace the internet, and have as many
> >internet gateways as possible, even if they heavily overlapped.
> >
> In the context of contemplating an indefinite future.

Right, that's why I called it future food for thought. Least power routing.

> This is not a few hooks, it turns the system on its ear. You propose
> taking the decision to IGate out of the hands of the individual clients
> and placing it in a central server.

But isn't this how it is done now? You decide who is the dedicated
Igate for an area? (in conjunction of course with a willing volunteer).

All I am suggesting is, eventually, a weighted lottery method based on a number of criteria that could be determined electronically be used. The intent here being the opposite of what you asked for... not to decrease the number of I-gates but to increase them.

The difference being instead of one selecting the I-gate, the system does this for you based on a number of criteria, location not being the only one. I-Gates are "awarded" for being on the air and available by having there weighting factor (chance they will be used) increased. I suspect, having played with mysql a little, it would not be to hard to use it to determine some of these weight factors already. (reliability being one of them)

This being for the purpose of implementing least power routing on our RF channel. I believe Tim Shepherd wrote a paper long these lines for is MIT thesis. Phil Karn is also a big advocate of this method.

> >While I won't bore you with the technical details, this boils down to
> >something
> >called "least power routing" which is a common industry standard.
>
> To determine this, you need to do even more modification to the system.

Again, food for thought. That's all I was presenting it as. It was my feeling that the benefits were very attractive, in particular long term scaleability. But your right.... I'm not going to tell you what to do. Also, I'm not in a position to duplicate and write a "new" APRSERVE and FINDU. Its beyond my present capabilities. So I'll be silent on this aspect of it.

> Each IGate program must be modified to accept commands from the judge,
> rather than make their own decisions.

Oh, I understand that. That's what I meant by "hooks". I think the thing that is being lost, in particular those that are telling me to "do it myself" (a good point however) is APRS development really is a collaborative effort.... more so then almost any other amateur program. While NOS was also a networking program, they were able leverage off of the existing tcp/ip protocols and had a strong standards body directing the core effort (as does Linux in the form of the benevolent dictator Linux Tovads).

This has been my fundamental misunderstanding in these conversations since May. I'll try to correct this.

> You need to make the system redundant, so that internet messaging does
> not fail when the judge goes down.

Yes, of course.

> >be implemented. In programming terms, I was just asking for the "hooks",
> >be it at your
> >site, or remotely, be considered.
> >
> If I'm missing an implementation that is really just a few hooks, please
> bore me with the details.

Well, here are a few things that might be logged (and they may already be logged by FINDU) in determining a weighting factor. I'm also not 100% sure of the retry/routing method you presently use for messaging... is that documented anywhere?

Again, before I proceed, the point of this was to have MORE internet gateways to reduce the number of digi's needed to INCREASE channel capacity by implement a crude form of least power routing. That's it. Here are the hooks for the weighting database part of it. * means optional and not really needed

1. Geographic location of IGATE(s) hearing message
2. *Signal strength info from this IGATE (would be nice, but I know it won't happen)
3. Geographic location of user wishing RF message
4. Ground elevation of IGATE (user or DEM derived)
5. Reliability factor of IGATE (i.e. is it up each hour of each day?-- posits heard --)
6. ERP of IGATE (user entered)
7. Antenna height of IGATE (user entered)
8. *Crosscheck on Antenna height (direct posit derived... not used in calculation but as method
to roughly confirm antenna height so user doesn't "fudge" things... this could happen)
9. History of this I-GATE.... how many messages did it successfully deliver?

Now, one could simply start out with points 1 & 2 (chose the closest geographical pairs). I'd immediately start logging point #9..... this will catch the I-Gates who have there transmitters improperly configured (overdeviation etc) and one can reduce there weight. Now it starts to become more complicated.

Reliability also is a factor.... that is, how often is the I-GATE on the air? This is your reward carrot.... assuming a ham wants his station used as a I-GATE (the carrot) one logs over time if that station is on the air (no more then once per hour however

to stop them from increasing the posit rate). Lets say the ham has a 99% up rate. He gets a high weighting number. If he has a 50% up ratio, then the weighting factor is lowered. This may not be needed at all depending on your transport method for messaging on the internet (ack ack?). But still might be useful as you'd still be logging over the air stuff.... which is the bottom line.

Now, I don't think the above method really takes a complete rewrite, does it? You presently have a criteria you use to determine who to send a over the air message to be transmitted. All the above information is already available to you, or could be derived. If not, specifically what is missing from the system?

Points 2, 4 (ground elevation), 6 (ERP), 7 (antenna height) and the crosscheck are all used to implement least power routing more directly, and might be a more long term thing.

So instead of only considering only geographical location, one also factors in other things. Lets say for example one has two I-gates that heard the signal, and now one wants to transmit through one of them. Both are the same distance from the msg client and both have the same history and reliability factor.

So, which one do we chose??

With least power routing, the idea is to minimize the RF footprint so as to have less impact on outlying areas to improve frequency re-use. Just like CDMA does it. So lets say we want to see at least a 40DB S/N signal at our client (who by default is modeled as a mobile user). Factoring in the noise level, we need at least a S-9 signal for a BER of 10-4 or better. So we pick the biggest station with the highest ERP/height, right? Not necessarily. In this case, both are only 5 miles away and both stations would dramatically exceed the 40db S/N we set as our threshold. So in this case, we pick the I-GATE that has the SMALLER RF foot print (lower ERP/height). This has no effect on our messaging but it causes less interference to those in outlying areas. Meaning, we have both increased channel capacity and increased the reliability of the system.

> I think this proposal would require a redesign
> of the network, a complete rewrite of APRServe, and large changes to

> every program that includes IGate code.

Possibly and the reason I am calling this food for thought. Or it may be APRS simply won't scale any further. We've already received reports on the SIG on congestive collapse of some of the urban networks. So maybe its terminal already. But these are the issues one might consider now, if one can.... this is not another quick fix but a method to allow almost infinite scaling of the system (see Tim's paper). As the system evolves, if one makes these considerations ahead of time, implementing them will be that much easier.

>Unless it was done right, it
>could easily decrease the reliability of the internet messaging.

Maybe, but if one agree with the following two statements, then having more I-GATES, instead of less I-GATES might eventually make sense, assuming the system can handle it. Least power routing..

1. A close direct path , IF POSSIBLE, is more reliable then a long digipeated path.
2. The direct path has less impact on the channel, thereby allowing more users to be on the channel (no/less digi's means less transmissions and a smaller RF footprint)

73

Jeff

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 15:59:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA29235
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 15:59:24 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76440-2000.04.09-15.59.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 09 Apr 2000 16:55:16 -0400

From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <LYR8644-76315-2000.04.09-04.10.51--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38F0EE34.B3EA79F2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse K4HG wrote:

> I think this proposal would require a redesign
> of the network, a complete rewrite of APRServe, and large changes to
> every program that includes IGate code.

Someone explained to me off-sig how I-Gate messaging worked from a internal perspective. In light of this, I completely agree with you.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 16:13:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA29802
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 16:13:22 -0500 (CDT)
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
Date: Sun, 9 Apr 2000 17:12:19 -0400
From: Steve Dimse K4HG <k4hg@aprs.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Message-ID: <LYR11589-76441-2000.04.09-16.13.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <1256825711-1633540@aprs.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/9/00 3:21 PM Jeff King (jeff@aerodata.net) wrote:

>
>Steve Dimse K4HG wrote:
>
>> This is not a few hooks, it turns the system on its ear. You propose
>> taking the decision to IGate out of the hands of the individual clients
>> and placing it in a central server.

>
>But isn't this how it is done now? You decide who is the dedicated
>IGate for an area? (in conjunction of course with a willing volunteer).

>
This episode I mentioned was the first time I've ever done anything to manage who could and couldn't be an IGate. Even in this case, all I did was suggest the two people talk to each other. If they both still want to be IGates, I'll add them both. As I say, this doesn't affect the internet side, it affects the RF side. It is not my place to manage local RF nets.

The decision I'm talking though about is who transmits a given packet. Right now each IGate makes the call itself on each packet. Each IGate keeps track of who it considers local, and when a message appears to one of an IGate's local users, it sends it.

>The difference being instead of one selecting the I-gate, the system does
>this for you based on a number of criteria, location not being the only
>one. I-Gates
>are "awarded" for being on the air and available by having there weighting
>factor (chance they will be used) increased. I suspect, having played with
>mysql
>a little, it would not be to hard to use it to determine some of these weight
>factors already. (reliability being one of them)

>
There is no infrastructure for collecting this information, nor any single place it can be acquired. It would require multiple modifications to most pieces of the present system.

>> >be implemented. In programming terms, I was just asking for the "hooks",
>> >be it at your
>> >site, or remotely, be considered.
>> >
>> If I'm missing an implementation that is really just a few hooks, please
>> bore me with the details.
>
>Well, here are a few things that might be logged (and they may already be
>logged
>by FINDU) in determining a weighting factor. I'm also not 100% sure of the
>retry/routing method you presently use for messaging... is that documented
>anywhere?
>
<http://www.aprs.net/inetmsg.html>

There was also my DCC98 paper, in the proceedings or at

<http://www.aprs.net/vm/dcc98.html>

I hadn't looked at the first link in quite a while, interesting to note that a couple years ago I wrote that the server was "very popular", documenting more than 40 users at a time and 500 connects a day. Now the two servers support more than 300 users most of the time and 5000 connects a day! I wonder if it will increase 10 fold again over the next 2 years!

The routing method, if you want to call it that, is quite simple. Every IGate sees every packet, and if a station is local, it transmits the message. Local means heard in x hops or less, generally 2, which matches the WIDES in the outgoing path. Acks are end to end.

>...
>Now, I don't think the above method really takes a complete rewrite, does
>it?

For gathering this data, there still must be an infrastructure created that allows access to each packet without filtering, and that can identify the source of each packet. This means either creating a new system that runs in parallel with APRServe, or a big rewrite of APRServe to change the way it handles data.

>You
>presently have a criteria you use to determine who to send a over the air
>message to be
>be transmitted. All the above information is already available to you, or
>could be derived.
>If not, specifically what is missing from the system?
>

Just to pick one of your unstarred criteria:

>9. History of this I-GATE.... how many messages did it successfully deliver?

This means the ACK from a client would need to identify which IGate it got the message from. The ACK protocol needs to be changed, and every client program, not to mention every D7 and D700, would need to be updated.

Of course, if you guarantee that only one station sends a message, then you can collect this info fairly easily, but the command/control system to cause single transmissions is entirely lacking.

>So instead of only considering only geographical location, one also
>factors in other
>things.

Geographical location is never looked at in the present system, it is a functional criteria. The target must be heard within x hops (generally 2) of the IGate within the last hour.

>Lets say for example one has two I-gates that heard the signal,
>and now
>one wants to transmit through one of them. Both are the same distance from
>the
>msg client and both have the same history and reliability factor.
>

>So, which one do we chose??

>
Right here is the greatest amount of work. First, you have to create this central judging program (with a redundant backup and a means for switching between them), then you have to somehow place each IGate under the control of this authority. I'm sorry, but this is not "just adding a few hooks".

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 16:51:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA01290
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 16:51:34 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76447-2000.04.09-16.51.30-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 09 Apr 2000 17:49:38 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <1256825711-1633540@aprs.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38F0FAF2.3C7516FE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse K4HG wrote:

> . It is not my place to manage local RF nets.

Maybe not.... but it will need to be done someday, I suspect sooner rather than later.

> The decision I'm talking though about is who transmits a given packet.
> Right now each IGate makes the call itself on each packet. Each IGate
> keeps track of who it considers local, and when a message appears to one
> of an IGate's local users, it sends it.

This was the fundamental problem I had. I thought there was some mechanism in place to limit this. In essence, you are considering the whole network as one big ethernet segment, and whatever "bridge" hears the user, takes it in. Must be an absolute mess during band openings.

One question, in your paper at <http://www.aprs.net/inetmsg.html> you state:

>Potential Problems

>The biggest problem that may occur with the new IGating system is QRM.
>In its present implementation, no check is made for the existence of multiple
>IGates in an area. Therefore, if an area has multiple IGates enabled to

retransmit

>messages, a message to a local station will cause all of them to transmit it. We
>think we have a way for the system to deal with this problem, but it will take a
>while to get it implemented. In the mean time, it is up to local users to be
aware
>of who the other IGates are, and to coordinate with them.

As you did recognize this problem at that time, what did you have in mind to
fix it and why wasn't it implemented?

> The routing method, if you want to call it that, is quite simple. Every
> IGate sees every packet, and if a station is local, it transmits the
> message. Local means heard in x hops or less, generally 2, which matches
> the WIDES in the outgoing path. Acks are end to end.

Right, as far as APRSERVE is concerned, your talking to one big ethernet
segment. Of course, radio isn't one big ethernet segment. In light of
this, I agree with you that it would be completely impractical to change
APRSERVE..... even so, there still might be a chance to implement a
least power routing system, the focus now just changes to the I-GATE
stations.

Or is it your feeling this is impractical also?

> >So instead of only considering only geographical location, one also
> >factors in other
> >things.
>
> Geographical location is never looked at in the present system, it is a
> functional criteria. The target must be heard within x hops (generally 2)
> of the IGate within the last hour.

OK, then the smaller "x hops" is, the higher the weighting factor. Would
this work? 0 hops (direct) being highest and so on.

Still, with APRSERVE being just one big ethernet segment, I don't see
how this could be communicated.

Oh well, maybe in the next life.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 17:06:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA01924
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 17:06:48 -0500 (CDT)
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
Date: Sun, 9 Apr 2000 18:05:30 -0400
From: Steve Dimse K4HG <k4hg@aprs.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>,
"TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Message-ID: <LYR11589-76450-2000.04.09-17.06.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <1256822520-37196@aprs.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/9/00 5:49 PM Jeff King (jeff@aerodata.net) wrote:

>
>
>Steve Dimse K4HG wrote:
>
>> . It is not my place to manage local RF nets.
>
>Maybe not.... but it will need to be done someday, I suspect sooner rather
>than later.
>
Not on a national level. The QRM is local, the issue is local. It would
be like the APRSWG declaring they would decide where all the digis in the
country have to be placed...
>
>As you did recognize this problem at that time, what did you have in mind to
>fix it and why wasn't it implemented?
>
The fix I thought of was random holdoff. If you are an IGate, after you
decide to transmit a message, you wait x+random(y) seconds...if you hear

the message on RF, you know someone else has transmitted it, so you don't. y would be decided based on the number of IGates and digis in an area, x would vary based on priority. This could be as simple as the presumption that IGates running aprsd are full time, and so have shorter holdoff, while clients like WinAPRS would have longer ones. More fraught with danger is to make it user-configurable. More complex would be to listen for other IGates and dynamically adjust the numbers.

Never got implemented because it never got high enough on the list. Lots of people complain about no IGate close enough to them, no complain reached my ears about too many. In any case, I only have control of APRServe, which provides IGate services to South Florida and SoCal only...

>

>> The routing method, if you want to call it that, is quite simple. Every IGate sees every packet, and if a station is local, it transmits the message. Local means heard in x hops or less, generally 2, which matches the WIDES in the outgoing path. Acks are end to end.

>

>Right, as far as APRSERVE is concerned, your talking to one big ethernet segment. Of course, radio isn't one big ethernet segment. In light of this, I agree with you that it would be completely impractical to change APRSERVE..... even so, there still might be a chance to implement a least power routing system, the focus now just changes to the I-GATE stations.

>

>Or is it your feeling this is impractical also?

>

How would you have the IGates gather and distribute the info they would need?

>

>> >So instead of only considering only geographical location, one also >> >factors in other >> >things.

>>

>> Geographical location is never looked at in the present system, it is a >> functional criteria. The target must be heard within x hops (generally 2) >> of the IGate within the last hour.

>

>OK, then the smaller "x hops" is, the higher the weighting factor. Would >this work? 0 hops (direct) being highest and so on.

>

Yes but...

One of the problems is variable propagation. Say one IGate hears usually in three hops, but just happens to get a packet once by one hop. Not such a big deal when the reliable IGate 2 hops away will also send the message, but if you implement a control system to make only the best IGate transmit, then you need to be a lot more rigorous, perhaps

examining each RF packet and running a moving average on each station.
More work, and the trouble here is it must be done in parallel by at
least 4 different authors...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 9 17:38:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA02820
for <lyris.aprsspec@tapr.org>; Sun, 9 Apr 2000 17:37:58 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76453-2000.04.09-17.37.53--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 09 Apr 2000 18:35:49 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: IGate placement
References: <1256822520-37196@aprs.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38F105C4.7CF4926D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse K4HG wrote:

>
> >As you did recognize this problem at that time, what did you have in mind to
> >fix it and why wasn't it implemented?
> >
> The fix I thought of was random holdoff. If you are an IGate, after you

> decide to transmit a message, you wait $x + \text{random}(y)$ seconds...if you hear
> the message on RF, you know someone else has transmitted it, so you
> don't. y would be decided based on the number of IGates and digis in an
> area, x would vary based on priority. This could be as simple as the
> presumption that IGates running aprsd are full time, and so have shorter
> holdoff, while clients like WinAPRS would have longer ones. More fraught
> with danger is to make it user-configurable. More complex would be to
> listen for other IGates and dynamically adjust the numbers.

Yes..... that would work. One other mechanism to consider here is if the message comes through a second time (or more) the station that sent it goes to a slightly HIGHER holdoff, lets call this h . The assumption being is that the station that sent it didn't make it, so go with another station. If no other station exists, the one sending it the first time would still send it again, just with $x + \text{random}(y) + h$. H would only be set once per message. Everyone would get the same first shot at it, then the person that sent it steps to the back of the line.

Would it also be possible to weight this formula with the digi-hop number also?

> Never got implemented because it never got high enough on the list. Lots
> of people complain about no IGate close enough to them, no complain
> reached my ears about too many.

Well, as you said, you've had a 10x increase since 1997. Again, the paradigm has changed since then. Now we are seeing full time internet access at more and more ham shacks. So not only has APRS users increased 10X since 1997, I'd think those that have full time internet have also increased at least 10X. So we are looking at at least a potential 100X increase in potential full time I-GATES since 1997.

In any case, this sounds like a local I-GATE issue and not an APRS-SERVE issue. Would it be possible for you to submit your plan to the APRS-WG, assuming you formally wrote it up. This is not something someone can "go out and code". Everyone needs to adopt it in a similar manner for it to be effective.

Alternately, I guess they are getting this e-mail.

Anyways, thanks for the go around. It was very enlightening.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 10 00:25:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA21970
for <lyris.aprsspec@tapr.org>; Mon, 10 Apr 2000 00:25:04 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-76507-2000.04.10-00.25.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 10 Apr 2000 01:22:11 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
References: <LYR11601-76397-2000.04.09-10.06.31--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38F16502.E65FB338@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
>
> See my 1994 article using the input channels of VOICE repeaters to
> deliver over 3 Mbytes of data per hour and yet not impact voice users on
> thse same repeater.

Is that online? I'd like to see it.

> We can tweak it, optimize it, but any step

> function radical change will probably need to seriously address backwards
> compatibility

Maybe, but there has to be some point we move on. I'd think any upgrade
the cost under \$100 and offered substantial improvements might be
immune from the need to use 15 year old TNC's.

> , or move to a different frequency.

Question for you.... can those Kenwood radios receive at 9.6kbaud on 440
and at the same time the transmit and receive at 1.2kbaud on 2meters?

Thanks

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 10 07:32:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11142
for <lyris.aprsspec@tapr.org>; Mon, 10 Apr 2000 07:32:11 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 10 Apr 2000 08:31:24 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
In-Reply-To: <38F16502.E65FB338@aerodata.net>
Message-ID: <LYR11589-76530-2000.04.10-07.32.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004100820480.20119-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> > See my 1994 article using the input channels of VOICE repeaters to
> > deliver over 3 Mbytes of data per hour and yet not impact voice users on
> > thse same repeater.
>
> Is that online? I'd like to see it.

It got removed from the APRSdos docs many years ago when I needed more room. But it is very simple. You stream data at 9600 baud from a voice repeater site by transmitting on its INPUT frequency. This is 9 packets at a burst. So for 900 ms you are streaming data, and for less than 100 ms the carrier drops and listens for anyone wanting to use the repeater.

Thus voice users are totally unaffected. They key their voice radio and within one second, the repeater hears them and they use the repeater normally. Whenever the repeater drops, it continues with the data feed.

The beauty is that it requires NO user mods. Every voice radio and voice user sees NO change. Yet for the 95% of the time that the repeater is idle, it is passing megabytes on its input frequency. (No one ever listens to the repeater input frequency).. Notice this is a one-way feed. Only the REPEATER itself can judge when the repeater input frequency is not busy. But this is exactly the way WEB pages work, 99% of the data goes one way.

The digital stations just capture everything. If a user needs to request a file, then his single packet gets transmitted on a common channel such as 145.01...

This idea got very little attention back then, because everyone was still thinking in terms of balanced two-way connect-type exchanges. But the WEB has changed all that... Now it is perfect!

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 10 07:32:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11159
for <lyris.aprsspec@tapr.org>; Mon, 10 Apr 2000 07:32:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 10 Apr 2000 08:32:03 -0400 (EDT)

From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Version 2.0, the "vision thing"
In-Reply-To: <38F16502.E65FB338@aerodata.net>
Message-ID: <LYR11589-76531-2000.04.10-07.33.02--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004100831270.20119-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 10 Apr 2000, Jeff King wrote:

>

> Question for you.... can those Kenwood radios receive at 9.6kbaud on 440
> and at the same time the transmit and receive at 1.2kbaud on 2meters?

No. It can operate cross band, but not at different rates..

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 14 10:51:55 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA19884
for <lyris.aprsspec@tappr.org>; Fri, 14 Apr 2000 10:51:52 -0500 (CDT)
Message-ID: <LYR11589-77467-2000.04.14-10.52.04--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 14 Apr 2000 16:51:07 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] APRS Compressed Position Format
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <ZxYAbQAr5z94Ewgn@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I need some real examples of APRS compressed position data, to help verify that the APRS Protocol Spec is correct.

If you transmit your posits in compressed format, please send me some examples, together with the corresponding lat/long coordinates.

Thank you.

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tappr.org/tappr/html/Faprswg.html |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 14 19:41:15 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA08691
for <lyris.aprsspec@tappr.org>; Fri, 14 Apr 2000 19:41:14 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-77575-2000.04.14-19.41.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 14 Apr 2000 20:28:56 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] GUI that supports COMPRESSED FORMAT?
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38F7B7C8.DEE64ACE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At one point, only APRSDOS was supporting the new compressed format.

Is anyone else supporting the compressed format?

WinAPRS?
APRS/CE?
XASTIR?
PALM/CE?
SA4+?
XASTIR?
UIVIEW?

Thanks

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 14 20:15:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA09718
for <lyris.aprsspec@tapr.org>; Fri, 14 Apr 2000 20:15:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 14 Apr 2000 21:14:14 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
In-Reply-To: <LYR11586-77575-2000.04.14-19.41.28--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-77580-2000.04.14-20.15.19--
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004142112000.26346-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 14 Apr 2000, Jeff King wrote:

> At one point, only APRSDOS was supporting the new compressed format.
> Is anyone else supporting the compressed format?
>
> WinAPRS?
> APRS/CE?
> XASTIR?
> PALM/CE?
> SA4+?
> XASTIR?
> UIVIEW?

Easy way to tell. If you monitor for APRSTk satellite posts from anyone, they default to COMPRESSED. Also PCSAT is in compressed as well as my home station WB4APR... Might give you some samples to look for.

Look for objects with the names of U022, K023, K025, T031, etc..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 14 20:38:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA10246
for <lyris.aprsspec@tapr.org>; Fri, 14 Apr 2000 20:38:50 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-77583-2000.04.14-20.39.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 14 Apr 2000 21:27:48 -0400
From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
References: <Pine.GS0.4.05L.10004142112000.26346-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <38F7C593.9B50B489@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
> Easy way to tell. If you monitor for APRSTk satellite posts from anyone,
> they default to COMPRESSED.

Right, but I didn't want to run every application I listed to determine that.
Figured asking the SIG would be the quickest way to determine which
ones besides your support it

Maybe if I rephrase:

Which of the following AGPS GUI apps support decoding of the
COMPRESSED FORMAT:

APRSDOS - YES
APRSTk - YES
Kenwood radios - YES?
WinAPRS - ??
XASTIR - ??
APRS/CE - ??
PALM/CE - ??
UIVIEW - ??
SA4+ - ??
Others?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 14 21:43:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA11659
for <lyris.aprsspec@tapr.org>; Fri, 14 Apr 2000 21:43:03 -0500 (CDT)
Message-Id: <LYR11589-77590-2000.04.14-21.43.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
Date: Fri, 14 Apr 2000 22:42:01 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004150242.WAA00236@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/14/00 9:27 PM Jeff King (jeff@aerodata.net) wrote:

>Which of the following AGPS GUI apps support decoding of the
>COMPRESSED FORMAT:

>

>Others?

>

findu.com No, but high on the do-list. Anyone want to donate the C code?

APRServe No, but with findu map.aprs.net is not going to be supported,
not a priority. It will, of course, pass the positions just fine.

javAPRS No, no plans to implement unless I have to get back into the code
for some other reason

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 15 12:39:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA20423
for <lyris.aprsspec@tapr.org>; Sat, 15 Apr 2000 12:39:02 -0500 (CDT)
Message-ID: <LYR11589-77745-2000.04.15-12.37.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Query Lines Boxes and Etc
Date: Sat, 15 Apr 2000 17:34:49 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001501bfa700\$e71031a0\$b8994d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All-

I am trying to output Tornado and Severe Thunderstorm Watch boxes from the Storm Prediction Center in Norman, OK - and I am have protocol questions.

1. On page 47 of the draft- in Chapter 11- the chart shows Object types 1 = line and 6 = colored line

Since you can define the color for all the types - whats the difference between a colored line and a line with color? This makes sense if 1= a line that needs to have its end down and to the right and 6= equals a line that ends down and to the left. This means that a "corridor" can only down and to the left. I can program around that if we are talking about a rectangle- but not all watch boxes are rectangles. I now need to goto 4 lines to define a box- not extremely efficient. The NWS is telling me that they are going to polygons- 3-4-5 or 6 sides maybe.

2. The last paragraph of Chapter 11 states that "Some stations transmit Object reports without the " ; ' APRS data type Identifier. This format is obsolete. Some software may still decode it, but this is not required."

Maybe so- but winAprs does not support it- so I will continue to output objects without the semicolon until everyone goes over to this format. If any software is not supporting "semicolonless" object I need to know so I can put it out both ways.

3. I cannot get winaprps to display any line.triangle,ellipse etc.- this could be a problem with my parser- but I am following the Spec as I understand it. However if there are programs that are currently supporting the spec on area objects let me know and I will begin to output the watch boxes.

4. There is a crying need for a multipoint format for polygons- for example: almost every tornado and severe thunderstorm warning has a polygon that is the "Area of Maximum Concern" which is the area the radar computer thinks is at greatest risk. How about a string of compressed lat/longs? Actually the NWS has it fairly compressed already I E
LAT...LON 3669 9495 3651 9497 3651 9418 3676 9417
this is in degrees and hundredths

Any help would be appreciated

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 15 18:39:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA01533
for <lyris.aprsspec@tapr.org>; Sat, 15 Apr 2000 18:39:15 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-77776-2000.04.15-18.37.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 15 Apr 2000 19:26:48 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
References: <Pine.GS0.4.05L.10004142112000.26346-100000@arctic>
<LYR11601-77583-2000.04.14-20.39.05--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <38F8FAB8.ECDB665C@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is what I have so far:

>Which of the following AGPS GUI apps support decoding of the
>COMPRESSED FORMAT?

APRSDOS - YES
APRSTk - YES
Kenwood radios - YES?
WinAPRS - No (user reports compressed not decoded properly)
XASTIR - Yes
APRS/CE - ??
PALM/CE - ??
UIVIEW - ??
SA4+ - ??
FindU - No (real soon?)
APRSSERVE - "No" but this passes the reports just fine
JavAPRS - No, no immediate plans to add this.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 16 00:27:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA18454
for <lyris.aprsspec@tapr.org>; Sun, 16 Apr 2000 00:27:19 -0500 (CDT)
Message-Id: <LYR11589-77838-2000.04.16-00.27.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 15 Apr 2000 22:26:46 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>

Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <l03130301b51eff12fcea@[198.106.196.177]>
<LYR11893-77609-2000.04.15-00.02.49--wagnerj#proaxis.com@lists.tappr.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

My implementation of GUI-driven APRS, provisionally called "easyAPRS" will support compressed format. It will not transmit in compressed format, but will receive, decode, and display.

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 16 06:09:54 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA04749
for <lyris.aprsspec@tappr.org>; Sun, 16 Apr 2000 06:09:53 -0500 (CDT)
Mime-Version: 1.0
Message-Id: <LYR11589-77878-2000.04.16-06.08.16--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 16 Apr 2000 07:06:01 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Current discussions
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <v04205509b51f4ee0ca9f@[165.230.133.70]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I am going to be away from email for over a week.. I am not ignoring the current discussions. I will have some replies when I get back.

Keith Sproul
Keith Sproul 732 445-3695 Office
Student Housing Network Coordinator 732 445-2968 Fax
mailto:ksproul@rci.rutgers.edu 732 821-4828 Home
http://dorm.rutgers.edu/~ksproul/ WU2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 16 07:56:30 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA06697
for <lyris.aprsspec@tappr.org>; Sun, 16 Apr 2000 07:56:28 -0500 (CDT)
Message-ID: <LYR11589-77891-2000.04.16-07.56.51--
lyris.aprsspec#tappr.org@lists.tappr.org>
Reply-To: "Tj Johnston" <n4uyq@arrl.net>
From: "Tj Johnston" <n4uyq@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] MIC-E detection
Date: Sun, 16 Apr 2000 08:56:42 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <002201bfa7a3\$3770a420\$0372f7a5@tjjohnstonmindspring.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

What is the easiest way to determine if a packet should be processed as a compressed packet or not.?

```
=====
Tj Johnston, N4UYQ                ICQ#3134626
Hopewell, VA - Prince George Co. ARES/RACES
Eastern Virginia APRS Group (EVA) - Sec/Treas.
EVA Homepage: http://www.qsl.net/eva/
APRSdigi Homepage: www.qsl.net/n4uyq/aprsdigi.htm
=====
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 16 08:33:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA07827
for <lyris.aprsspec@tapr.org>; Sun, 16 Apr 2000 08:33:34 -0500 (CDT)
Message-ID: <LYR11589-77897-2000.04.16-08.33.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 16 Apr 2000 14:33:29 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: MIC-E detection
References: <LYR14779-77891-2000.04.16-07.56.51--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-77891-2000.04.16-07.56.51--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <h+b+oEApEc+4Ewv4@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-77891-2000.04.16-07.56.51--Ian.Wade#care4free.net@lists.tapr.org>, Tj Johnston <n4uyq@arrl.net> writes
>What is the easiest way to determine if a packet should be processed as a
>compressed packet or not.?

'pends what you mean by "compressed".

In the APRS Spec, we distinguish between "encoded" (meaning Mic-E format) and "compressed" (meaning compressed format).

To detect a Mic-E packet, you have to look first at the APRS Data Type Identifier (the first byte of the AX.25 Information field). For a Mic-E packet, this will be either ` (back quote/grave) or ' (apostrophe).

` means it is a Current Mic-E report (except for the Kenwood DM700).

' means it is an Old Mic-E Report (except for the Kenwood DM700, where it means it is a Current Mic-E Report -- this is a bug in the DM700 firmware).

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 16 09:31:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11044
for <lyris.aprsspec@tapr.org>; Sun, 16 Apr 2000 09:31:40 -0500 (CDT)
Message-ID: <LYR11589-77909-2000.04.16-09.32.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Correction: Semicolon non-problem
Date: Sun, 16 Apr 2000 14:29:03 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3

X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001701bfa7b0\$1dd2cc20\$cb984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All-

A correction to my earlier post concerning a semicolon for the first character of a object- it works just fine in WinAprs- the problem appears to be between my ears.

I am moving all objects created by my parser to using a semicolon- let me know if that causes problems.

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 16 14:06:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA20018
for <lyris.aprsspec@tapr.org>; Sun, 16 Apr 2000 14:06:56 -0500 (CDT)
Message-ID: <LYR11589-77955-2000.04.16-14.07.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Tj Johnston" <n4uyq@arrl.net>
From: "Tj Johnston" <n4uyq@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Cheap laptops and terminals
Date: Sun, 16 Apr 2000 15:06:53 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <003101bfa7d6\$ee41e8c0\$f174f7a5@tjjohnstonmindspring.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In order to provide better operation of APRSdigi and a few other future programs,
I need to gather a little information from the multitude of APRS hams out there.

Many different types of cheap laptops and computers are being used for APRS.
I need to get a rough idea of what type of video and max resolution these may
have.
I dont want to waste coding space for rare types and resolutions.

If you get a chance, please send email to n4uyq@arrl.net

Let me know what Type:

MONO

CGA with color display (like the Tandy 1000 desktop series)

CGA with mono display (like the Tandy 1100 laptop series)

EGA with color display

EGA with mono display

VGA with color display (like most current laptops)

VGA with mono display (like the ruggedized APRS Terminals)

and the maximum resolution it supports.(ie: 640 x 480)

=====
Tj Johnston, N4UYQ ICQ#3134626
Hopewell, VA - Prince George Co. ARES/RACES
Eastern Virginia APRS Group (EVA) - Sec/Treas.
EVA Homepage: <http://www.qsl.net/eva/>
APRSdigi Homepage: www.qsl.net/n4uyq/aprsdigi.htm
=====

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 17 15:52:31 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19200
for <lyris.aprsspec@tappr.org>; Mon, 17 Apr 2000 15:52:29 -0500 (CDT)
Date: Mon, 17 Apr 2000 13:51:57 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
In-Reply-To: <LYR12892-77838-2000.04.16-00.27.35--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-78206-2000.04.17-15.52.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10004171350290.3065-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 15 Apr 2000, Jim Wagner wrote:

> My implementation of GUI-driven APRS, provisionally called "easyAPRS" will
> support compressed format. It will not transmit in compressed format, but
> will receive, decode, and display.

I believe this is the state that the Xastir code was last in. I contributed
the decoder for the compressed format, but didn't write an encoder. I
assume we're talking about the YYYYXXXX format.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 17 16:21:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA20276
for <lyris.aprsspec@tapr.org>; Mon, 17 Apr 2000 16:21:26 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Apr 2000 17:20:15 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
In-Reply-To: <LYR11586-77745-2000.04.15-12.37.43--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-78211-2000.04.17-16.21.38--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004171632060.21302-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 15 Apr 2000, Dale Huguley wrote:

> 1. On page 47 of the draft- in Chapter 11- the chart shows Object types
> 1 = line and 6 = colored line
> Since you can define the color for all the types - whats the
> difference between a colored line and a line with color? This makes sense
> if 1= a line that needs to have its end down and to the right and 6= equals
> a line that ends down and to the left. This means that a "corridor" can
> only down and to the left. I can program around that if we are talking about
> a rectangle- but not all watch boxes are rectangles. I now need to goto 4
> lines to define a box- not extremely efficient.

You are correct. Both are colored lines, but being linear one dimensional lines, there is no concept of "FILLED with color". But they DO have WIDTH.

APRS can draw either of these lines at any angle and can then specify a line either side of that line. This matches the NWS descriptions perfectly of watch boxes extended X miles either side of a line between point A and point B. The format is noted in the spec to include the WIDTH parameter in the COMMENT field in BRACES as in {70} which would be 70 miles either side.

APRSDOS draws this as the original line from point A to point B and then an oblique rectangle box with the sides 70 miles to either side. The rectangle is drawn with dotted lines of the same color as the original line. The result is a RECTANGLE of any width or orientation.

> 2. The last paragraph of Chapter 11 states that "Some stations transmit
> Object reports without the " ; ' APRS data type Identifier. This format is
> obsolete. Some software may still decode it, but this is not required."

> Maybe so- but winAprs does not support it- so I will continue to output
> objects without the semicolon until everyone goes over to this format. If
> any software is not supporting "semicolonless" object I need to know so I
> can put it out both ways.

Are you sure? The format using ";" is the only current format. The
format without the ";" was decided to be obsolete back in 1997. We first
implemented it in 1995 with the Sprouls concurrence. APRSdos, and any of
the kenwood products require the ";" and ignore the obsolete format.

> 3. I cannot get winaprs to display any line.triangle,ellipse etc.- this
> could be a problem with my parser- but I am following the Spec as I
> understand it. However if there are programs that are currently supporting
> the spec on area objects let me know and I will begin to output the watch
> boxes.

>
> 4. There is a crying need for a multipoint format for polygons- for
> example: almost every tornado and severe thunderstorm warning has a polygon
> that is the "Area of Maximum Concern" which is the area the radar computer
> thinks is at greatest risk. How about a string of compressed lat/longs?
> Actually the NWS has it fairly compressed already I E
> LAT...LON 3669 9495 3651 9497 3651 9418 3676 9417
> this is in degrees and hundredths

Back in 95, I proposed a multipoint line drawing protocol and the Sprouls
agreed. But neither of us got around to coding it. My format was
scalable to any size. It included the LAT/LONG of the starting point and
then a SCALE, and then a list of X/Y offsets for each of the points. Thus
it could represent things as small as a few feet to as large as hundreds
of miles. I can dig for it...

By using an origin and base-91 offsets, then we could send polygons (or
contiguous line segments with as many as 40 points in a single 100 byte
packet.

de WB4APR, B0

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 17 16:38:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA20964
for <lyris.aprsspec@tapr.org>; Mon, 17 Apr 2000 16:38:55 -0500 (CDT)

Message-ID: <LYR11589-78212-2000.04.17-16.37.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
Date: Mon, 17 Apr 2000 17:37:18 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6D01@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

An interesting thought... If you could have a LAT/LON and a sequence of vectors (length and direction) then it'd be a short notation for an object path... so tornado - hurricane paths could be displayed... hmmm interesting in the case of a hurricane if each segment equated to an hour in time...

Similarly, path of any moving object could be sent the same way... so folks could see the path of a balloon over 1 minute intervals... or a vehicle...

And, I could see some benefit in true tactical environments where intended paths were delineated in advance...

SCALE does not come into this particular capability... but it sure is a nice shorthand for previous and projected future paths of objects....

ALOHA
AH6LS

> -----Original Message-----
> From: Bob Bruninga [SMTP:bruninga@nadn.navy.mil]
> Sent: Monday, April 17, 2000 5:20 PM
> To: APRS Spec Discussion List
> Cc: APRS Spec Discussion List
> Subject: [aprsspec] Re: Query Lines Boxes and Etc
>
> On Sat, 15 Apr 2000, Dale Huguley wrote:
>
> > 1. On page 47 of the draft- in Chapter 11- the chart shows Object
> types
> > 1 = line and 6 = colored line

> > Since you can define the color for all the types - whats
> the
> > difference between a colored line and a line with color? This makes
> sense
> > if 1= a line that needs to have its end down and to the right and 6=
> equals
> > a line that ends down and to the left. This means that a "corridor" can
> > only down and to the left. I can program around that if we are talking
> about
> > a rectangle- but not all watch boxes are rectangles. I now need to goto
> 4
> > lines to define a box- not extremely efficient.
>
> You are correct. Both are colored lines, but being linear one dimensional
> lines, there is no concept of "FILLED with color". But they DO have
> WIDTH.
>
> APRS can draw either of these lines at any angle and can then specify a
> line either side of that line. This matches the NWS descriptions
> perfectly of watch boxes extended X miles either side of a line between
> point A and point B. The format is noted in the spec to include the
> WIDTH parameter in the COMMENT field in BRACES as in {70} which would be
> 70 miles either side.
>
> APRSdos draws this as the original line from point A to point B and then
> an oblique rectangle box with the sides 70 miles to either side. The
> rectangle is drawn with dotted lines of the same color as the original
> line. The result is a RECTANGLE of any width or orientation.
>
> > 2. The last paragraph of Chapter 11 states that "Some stations
> transmit
> > Object reports without the " ; ' APRS data type Identifier. This format
> is
> > obsolete. Some software may still decode it, but this is not required."
> > Maybe so- but winAprs does not support it- so I will continue to output
> > objects without the semicolon until everyone goes over to this format.
> If
> > any software is not supporting "semicolonless" object I need to know so
> I
> > can put it out both ways.
>
> Are you sure? The format using ";" is the only current format. The
> format without the ";" was decided to be obsolete back in 1997. We first
> implemented it in 1995 with the Sprouls concurrence. APRSdos, and any of
> the kenwood products require the ";" and ignore the obsolete format.
>
> > 3. I cannot get winaprs to display any line.triangle,ellipse etc.-
> this

> > could be a problem with my parser- but I am following the Spec as I
> > understand it. However if there are programs that are currently
> supporting
> > the spec on area objects let me know and I will begin to output the
> watch
> > boxes.
> >
> > 4. There is a crying need for a multipoint format for polygons- for
> > example: almost every tornado and severe thunderstorm warning has a
> polygon
> > that is the "Area of Maximum Concern" which is the area the radar
> computer
> > thinks is at greatest risk. How about a string of compressed lat/longs?
> > Actually the NWS has it fairly compressed already I E
> > LAT...LON 3669 9495 3651 9497 3651 9418 3676 9417
> > this is in degrees and hundredths
>
> Back in 95, I proposed a multipoint line drawing protocol and the Sprouls
> agreed. But neither of us got around to coding it. My format was
> scalable to any size. It included the LAT/LONG of the starting point and
> then a SCALE, and then a list of X/Y offsets for each of the points. Thus
> it could represent things as small as a few feet to as large as hundreds
> of miles. I can dig for it...
>
> By using an origin and base-91 offsets, then we could send polygons (or
> contiguous line segments with as many as 40 points in a single 100 byte
> packet.
>
> de WB4APR, B0
>
>
>
> ---
> You are currently subscribed to aprsspec as: asadowski@ncshp.org
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 17 17:16:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA22429
for <lyris.aprsspec@tapr.org>; Mon, 17 Apr 2000 17:16:28 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Apr 2000 18:15:30 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
In-Reply-To: <BF01BF9F0651D311B7A100104B716B904B6D01@SHPMAIL>
Message-ID: <LYR11589-78215-2000.04.17-17.16.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004171758000.21302-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 17 Apr 2000, Sadowski, Allan wrote:

> An interesting thought... If you could have a LAT/LON and a sequence of
> vectors (length and direction) then it'd be a short notation for an object
> path... so tornado - hurricane paths could be displayed... hmmm interesting
> in the case of a hurricane if each segment equated to an hour in time...

What I had originally proposed was before we began using BASE-91
characters and compressed format, so here is what I would propose today
using the existing ITEM format (compressed).

```
)NAME!\yyyyxxxx)SSSxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyxyx  
^^^^^^^^^^^^^^^^^^
```

WHERE this is just an ITEM named "NAME" in compressed format using
the symbol characters of "\)" (This is a currently undefined
SYMBOL). The YYYYYXXXX is the starting point anywhere on the
planet to the nearest foot.

The first 3 bytes in the COMMENT field for this ITEM is the
SCALE in base 91, giving a scale anywhere from 1 foot to
142 miles (per line segment)

The remainder of the line are any number of pairs of X/Y offsets
from each previous point. Each offset is a single
base 91 number with anything above 45 being positive and below
45 being negative.

The result then can be any multifaceted shape from a small scale of
about 1 foot per line segment up to an object 142 miles on a side.

NOtice that this is a completely legal ITEM. Its just that the SYMBOL (ICON) has this unique set of display rules...

de WB4APR.

Thus, I can transmit to you in ONE PACKET a complete MAP of the route from the nearest INTERSTATE to my front door in a single packet...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 17 19:48:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA27463
for <lyris.aprsspec@tapr.org>; Mon, 17 Apr 2000 19:48:22 -0500 (CDT)
Message-ID: <LYR11589-78224-2000.04.17-19.48.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
Date: Mon, 17 Apr 2000 20:48:34 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B904B6D03@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob

My problem with this is that as I understand your format... each segment is the same length... What I'm looking for is vectors... so azimuth and range... the vectors can change in length..... I have no interest in regular polygons... or having to try to fit regular line segments into a plane space where segments

differ in length... are you familiar with the tactical term "spider routes" ?

maybe that will help explain what I'm trying to reconcile your concept with...

I could even live with the range portion of the vector being a log scale like
muLaw is for telephone codecs...

Also... for the sake of internationalization... I'd whole lot prefer meters to be the
base distance measurement... I keep tripping on your "feet"... pun intended....

Good try... and I guess what you present here has applicability... and since
I'm not a coding guru.. we take what we get...

ALOHA
AH6LS

> -----

> From: Bob Bruninga[SMTP:bruninga@nadm.navy.mil]

> Sent: Monday, 17 April, 2000 6:15 PM

> To: Sadowski, Allan

> Cc: APRS Spec Discussion List

> Subject: RE: [aprsspec] Re: Query Lines Boxes and Etc

>

> On Mon, 17 Apr 2000, Sadowski, Allan wrote:

>

> > An interesting thought... If you could have a LAT/LON and a sequence
> of

> > vectors (length and direction) then it'd be a short notation for an
> object

> > path... so tornado - hurricane paths could be displayed... hmmm

> interesting

> > in the case of a hurricane if each segment equated to an hour in time...

>

>

> What I had originally proposed was before we began using BAsE-91

> characters and compressed format, so here is what I would propose today

> using the existing ITEM format (compressed).

>

>)NAME!\yyyyxxxx)SSSxyx
> ^^^^^^^^^^^^^^^^^^^

>

> WHERE this is just an ITEM named "NAME" in compressed format using

> the symbol characters of "\)" (This is a currently undefined

> SYMBOL). The YYYYYXXX is the starting point anywhere on the

> planet to the nearest foot.
>
> The first 3 bytes in the COMMENT field for this ITEM is the
> SCALE in base 91, giving a scale anywhere from 1 foot to
> 142 miles (per line segment)
>
> The remainder of the line are any number of pairs of X/Y offsets
> from each previous point. Each offset is a single
> base 91 number with anything above 45 being positive and below
> 45 being negative.
>
> The result then can be any multifaceted shape from a small scale of
> about 1 foot per line segment up to an object 142 miles on a side.
>
> Notice that this is a completely legal ITEM. Its just that the SYMBOL
> (ICON) has this unique set of display rules...
>
> de WB4APR.
>
> Thus, I can transmit to you in ONE PACKET a complete MAP of the route from
> the nearest INTERSTATE to my front door in a single packet...
>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 17 21:04:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA29605
for <lyris.aprsspec@tapr.org>; Mon, 17 Apr 2000 21:04:42 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Apr 2000 22:02:11 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
In-Reply-To: <BF01BF9F0651D311B7A100104B716B904B6D03@SHPMAIL>
Message-ID: <LYR11589-78278-2000.04.17-21.03.09--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004172159470.23530-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 17 Apr 2000, Sadowski, Allan wrote:

> My problem with this is that as I understand your format... each segment is
> the same length... What I'm looking for is vectors... so azimuth and
> range...

No, each segment can be any length it takes to get from one point to the next point. The only thing that is specified is the location of the next point (in values of X and Y) from the current point.

bob

> > What I had originally proposed was before we began using BASE-91
> > characters and compressed format, so here is what I would propose today
> > using the existing ITEM format (compressed).
> >
> >)NAME!\yyyyxxxx)SSSxyx
> > ^^^^^^^^^^^^^^^^^
> >
> > WHERE this is just an ITEM named "NAME" in compressed format using
> > the symbol characters of "\)" (This is a currently undefined
> > SYMBOL). The YYYYYXXXX is the starting point anywhere on the
> > planet to the nearest foot.
> >
> > The first 3 bytes in the COMMENT field for this ITEM is the
> > SCALE in base 91, giving a scale anywhere from 1 foot to
> > 142 miles (per line segment)
> >
> > The remainder of the line are any number of pairs of X/Y offsets
> > from each previous point. Each offset is a single
> > base 91 number with anything above 45 being positive and below
> > 45 being negative.
> >
> > The result then can be any multifaceted shape from a small scale of
> > about 1 foot per line segment up to an object 142 miles on a side.
> >
> > NOtice that this is a completely legal ITEM. Its just that the SYMBOL
> > (ICON) has this unique set of display rules...
> >
> > de WB4APR.

> >
> > Thus, I can transmit to you in ONE PACKET a complete MAP of the route from
> > the nearest INTERSTATE to my front door in a single packet...
> >
> >
> >
> >
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 00:23:54 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA14454
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 00:23:51 -0500 (CDT)
Message-Id: <LYR11589-78310-2000.04.18-00.24.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 17 Apr 2000 22:23:24 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130303b521a153c83e@[206.163.154.10]>
<LYR11893-78296-2000.04.18-00.02.05--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>On Sat, 15 Apr 2000, Jim Wagner wrote:
>

>> My implementation of GUI-driven APRS, provisionally called "easyAPRS" will
>> support compressed format. It will not transmit in compressed format, but
>> will receive, decode, and display.

>

>I believe this is the state that the Xastir code was last in. I contributed
>the decoder for the compressed format, but didn't write an encoder. I
>assume we're talking about the YYYYXXXX format.

>

easyAPRS will handle both YYYYXXXX format and Mic-E

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 05:21:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA00576
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 05:21:52 -0500 (CDT)
Message-ID: <LYR11589-78359-2000.04.18-05.22.07--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
Date: Tue, 18 Apr 2000 10:18:12 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000801bfa91f\$7708a9c0\$48984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All and Bob- Bob said-

>APRS can draw either of these lines at any angle and can then specify a
>line either side of that line. This matches the NWS descriptions
>perfectly of watch boxes extended X miles either side of a line between
>point A and point B. The format is noted in the spec to include the
>WIDTH parameter in the COMMENT field in BRACES as in {70} which would be
>70 miles either side.
>

I must be missing something- If the "corridor box" is defined as a point
with a "down and to the left" offset- then what if you need a "down and to
the right"? drawing it backwards would give you a negative up-down offset-
The NWS gives you the lat/long for the corners of the box- this can be
reliably parsed whereas I'm not so sure about finding the two reference
points and converting from verbal to lat/long.

>
>Are you sure? The format using ";" is the only current format. The
>format without the ";" was decided to be obsolete back in 1997. We first
>implemented it in 1995 with the Sprouls concurrence. APRSdos, and any of
>the kenwood products require the ";" and ignore the obsolete format.

Yes I am sure I was wrong- works fine in Winaprs--

>Back in 95, I proposed a multipoint line drawing protocol and the Sprouls
>agreed. But neither of us got around to coding it. My format was
>scalable to any size. It included the LAT/LONG of the starting point and
>then a SCALE, and then a list of X/Y offsets for each of the points. Thus
>it could represent things as small as a few feet to as large as hundreds
>of miles. I can dig for it...
>
>By using an origin and base-91 offsets, then we could send polygons (or
>contiguous line segments with as many as 40 points in a single 100 byte
>packet.

I like the concept of this- however the 140 mile limit for length of side

would be combersome for watch boxes- could the scale be changed for some predefined watch box object?

Thanks for the help

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 08:28:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA05040
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 08:28:32 -0500 (CDT)
From: "Rob Wittner" <rmw@rwa-inc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?
Date: Tue, 18 Apr 2000 09:27:54 -0400
Message-ID: <LYR11589-78375-2000.04.18-08.28.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11697-77776-2000.04.15-18.37.38--rmw#rwa-inc.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NCBBLCALCLCLLFGBMFCMIEFODGAA.rmw@rwa-inc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

:-----Original Message-----

: [mailto:bounce-aprsspec-11697@lists.tapr.org] On Behalf Of Jeff King

: Subject: [aprsspec] Re: GUI that supports COMPRESSED FORMAT?

:

: APRS/CE - ??

:

APRS/CE - No, not yet... on the "To-Do" list

-Rob
KZ5RW

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 09:23:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA06855
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 09:23:31 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Apr 2000 10:20:45 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
In-Reply-To: <000801bfa91f\$7708a9c0\$48984d0c@dale-s-home>
Message-ID: <LYR11589-78390-2000.04.18-09.21.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004181002300.25675-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Apr 2000, Dale Huguley wrote:

> >APRS can draw either of these lines at any angle and can then specify a
> >line either side of that line. This matches the NWS descriptions
> >perfectly of watch boxes extended X miles either side of a line between
> >point A and point B. The format is noted in the spec to include the
> >WIDTH parameter in the COMMENT field in BRACES as in {70} which would be
> >70 miles either side.
>
> I must be missing something- If the "corridor box" is defined as a point

> with a "down and to the left" offset- then what if you need a "down and to
> the right"? drawing it backwards would give you a negative up-down offset-

APRS has two line OBJECTS. One is down and to the left. The other is down and to the right. From these two, we can draw a LINE at any angle anywhere. Then, if you put a WIDTH in the comment field, then APRS draws two additional parallel lines that width to either side and then connects the end points. The result is a rectangle of any size you want at any angle you want.

> The NWS gives you the lat/long for the corners of the box- this can be
> reliably parsed whereas I'm not so sure about finding the two reference
> points and converting from verbal to lat/long.

The above RECTANGLE is the way NWS used to report watch boxes. "in an area XX miles either side of a line between point A and B"... Their new method simply needs to be converted to that format. Simply take the midpoint between the 1st and 2nd points and let that be the OBJECT LAT/LONG (point "A". Then compute the midpoint between, the 3rd and 4th point, and that is the "point B" that you use to define the original line. Then compute the WIDTH of the box (the distance between the 1st and 2nd point divided by 2) and you have what you need to do any box with existing APRS...

> >By using an origin and base-91 offsets, then we could sent polygons (or
> >contiguous line segments with as many as 40 points in a single 100 byte
> >packet.
>
> I like the concept of this- however the 140 mile limit for length of side
> would be cumbersome for watch boxes- could the scale be changed for some
> predefined watch box object?

If you chose the 140 mile scale, then each segment could be any length from 3 miles to 140 miles in increments of 3 miles. If you need smaller boxes, then choose a smaller scale factor. If you need larger boxes, then define each side to be many segments. Say 3 segments each. Then your box could be 420 miles on a side accurate to about 9 miles.

I admit that going to multiple line segments on a side is cumbersome. How about if we defined the SSS scale factor to be in Meters. Then the range of scale would be from 3 feet to 420 miles before you would have to go to multiple segments.

I think everyone would prefer METERS anyway...

Bob, WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 14:13:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA16576
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 14:13:01 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Apr 2000 15:10:17 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
In-Reply-To: <LYR11586-78390-2000.04.18-09.21.50--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-78428-2000.04.18-14.11.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10004181451200.4624-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Apr 2000, Bob Bruninga wrote:

> > >By using an origin and base91 offsets, then we could send polygons(or
> > >contiguous line segments with as many as 40 points in a single packet.

> How about if we defined the SSS scale factor to be in Meters. Then
> the range of scale would be from 3 feet to 420 miles before you would have
> to go to multiple segments.

BETTER IDEA: The offsets and scale should all be done in terms of
LAT/LONG (not meters) to avoid any complex spherical trig functions. If
we let the units be in terms of .000001 degree of LAT/LONG, then we get
approximately 1 meter precision. AND since this is just a "shape" then if
we define the symbol character of ")" to be a polygon then it can be
transmitted in ANY existing APRS POSIT, OBJECT or ITEM report.

So the format would be:

- * ANY POSIT, OBJECT or ITEM defines the origin of the polygon
- * SYMBOL of "\)" indicates it will be a polygon
- * Comment field format is then:

CSSSxyxyxyxyxyxyxy...

Where C is the color 0-15 (or 16-32 means FILL the polygon)
SSS is the scale factor in units of .00001 degree of lat/long
xy are offset pairs between each subsequent point

Thus the following comment field on an OBJECT located at 3847.04N
07710.53W could completely define the Washington DC BELTWAY:

+\$<S2L8U6N=WBZGcRYR\UQaGyUUQ\CSINKTJOLQEWGOJMJPJM?PEHIC
Where + is the color 10
!\$< is for a scale factor of 300
S2L8U6.... is the beltway!

Another example would be that I could use that SYMBOL for my home station
and the line segments could trace out a PATH from the nearest interstate
exit to my front door... for when someone is visiting and looking for me
for example...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 18 17:17:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA23545
for <lyris.aprsspec@tapr.org>; Tue, 18 Apr 2000 17:17:18 -0500 (CDT)
Message-ID: <LYR11589-78483-2000.04.18-17.17.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Query Lines Boxes and Etc
Date: Tue, 18 Apr 2000 22:14:29 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001601bfa983\$782a20e0\$94b64d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi Bob and all-

I see my problem- I was going by the draft spec- according to it the only line object that has a "width" definable is a type "6" - down and to the left. If a type "1" can have a corridor then I can get there from here.

Bob Said-

>APRS has two line OBJECTS. One is down and to the left. The other is
>down and to the right. From these two, we can draw a LINE at any angle
>anywhere. Then, if you put a WIDTH in the comment field, then APRS draws
>two additional parallel lines that width to either side and then connects
>the end points. The result is a rectangle of any size you want at any
>angle you want.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 20 09:15:31 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03395
for <lyris.aprsspec@tappr.org>; Thu, 20 Apr 2000 09:15:30 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 20 Apr 2000 10:14:46 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: ? SSID Path implementation.
In-Reply-To: <LYR11586-76170-2000.04.08-13.59.23--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-78814-2000.04.20-09.15.51--
lyris.aprsspec#tappr.org@lists.tappr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004201010340.13291-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I think you are testing the internal DIGI inside the D700?
Yes, it will respond to the SSID routing and to DIRECTIONAL ROUTING...

There are 4 paths for directional routing, NPATH,SPATH,EPATH,WPATH
I am glad you are testing these.

Bob, WB4APR

But it would not surprise
On Sat, 8 Apr 2000, Marco Savegnago wrote:

> Hello, I'm trying to understand the SSID Path routing method
> as implemented in the TM-D700.
>
> There is not any digipeater in my area that implement the SSID Path
> method for routing the UI frame with another firmware, I never found in
> the APRS protocol specification how the method work exactly, and I want
> to be sure that my observation is correct and this is how the protocol
> must be implemented.
>
> First the SSID Path routine in the D700 must be enable with the
> command UISSID and digipeater ON.
>
> I've observed that when UISSID is ON the digipeater repeat all
> the UI frame addressed to ANY CALL with SSID > 0 (not only the mycall or
> other generic call) and repeat as follow:
>
> >From SSID > 0 and SSID < 8
>
> The frame will be repeated with the SSID of destination decremented by one
> and the call of the digipeater will be put in the via list.
>
> Example:
>
> A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-6):

>
> IW3FQG>APRS-7:
>
> will be repeated to:
>
> IW3FQG>APRS-6, DIGI*:
>
> With SSID > 8 the translation rules is different because there is the
> direction rule.
>
> If SSID is equal to 8 (North direction)
>
> If the digipeater listen an UI frame addressed to ANY call with
> ssid = 8 it repeat the frame, put the SSID of destination to zero,
> put the digipeater callsign in the via list and attach to this if
> available the path for North direction (NPATh parameter in D700).
>
> Example:
>
> A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-8, NPATh in the
> digi is set
> to NORTH):
>
> IW3FQG>APRS-8:
>
> will be repeated to:
>
> IW3FQG>APRS,DIGI*,NORTH:
>
> If SSID is equal to 12 (North direction)
>
> If the digipeater listen an UI frame addressed to ANY call with
> ssid = 12 it repeat the frame, put the SSID of destination the same as
> received,
> put the digipeater callsign in the via list and attach to this if
> available the path for North direction (NPATh parameter in D700).
>
> Example:
>
> A frame like this (MYCALL is IW3FQG and UNPROTO is APRS-12, NPATh in the
> digi is set
> to NORTH):
>
> IW3FQG>APRS-12:
>
> will be repeated to:
>
> IW3FQG>APRS-12,DIGI*,NORTH:

>
> The same rule is valid for South (SSID 9,13) East (10, 14) and West (11,
> 15).
>
> I've observed that in all cases if the frame is sent with a digipeater the
> via
> path (es: APRS-8 VIA DIGI) the frame is not repeated.
>
> IW3FQG>APRS-8,DIGI:
>
> Is not repeated by the digipeater.
>
> Do you know if all these rules are correct?
>
> Thanks in advance.
>
> Marco IW3FQG
>
> msave@tin.it
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tappr.org/tappr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 21 01:16:03 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09569
for <lyris.aprsspec@tappr.org>; Fri, 21 Apr 2000 01:16:02 -0500 (CDT)
Message-ID: <LYR11589-78959-2000.04.21-01.16.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Marco Savegnago" <msave@tin.it>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: <aprsspec@lists.tappr.org>
References: <Pine.GS0.4.05L.10004201010340.13291-1000000@arctic>
Subject: [aprsspec] Re: ? SSID Path implementation.
Date: Fri, 21 Apr 2000 08:16:46 +0200
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <000f01bfab59\$2c626c30\$e500000a@marco>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello Bob, thank you for the message, I'm testing the D700 features, and I've also implemented it in my digipeater TNC2 firmware named UIDIGI and now we are experimenting this routing method in my local area (North East of Italy).

I never see any information in the APRS Protocol specification, so I've tried to understand the routing rules testing the D700.

Bye.

Marco IW3FQG

----- Original Message -----

From: Bob Bruninga <bruninga@nadn.navy.mil>
To: Marco Savegnago <m-save@tin.it>
Cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Sent: Thursday, April 20, 2000 4:14 PM
Subject: Re: [aprsspec] ? SSID Path implementation.

> I think you are testing the internal DIGI inside the D700?
> Yes, it will respond to the SSID routing and to DIRECTIONAL ROUTING...
>
> There are 4 paths for directional routing, NPATH,SPATH,EPATH,WPATH
> I am glad you are testing these.
>
> Bob, WB4APR

>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 21 07:59:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA28074
for <lyris.aprsspec@tapr.org>; Fri, 21 Apr 2000 07:58:58 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 21 Apr 2000 08:58:28 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: ? SSID Path implementation.
In-Reply-To: <LYR11586-78959-2000.04.21-01.16.31--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-78973-2000.04.21-07.59.32--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004210858030.23120-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 21 Apr 2000, Marco Savegnago wrote:

> Hello Bob, thank you for the message, I'm testing the D700 features, and
> I've also implemented it in my digipeater TNC2 firmware named UIDIGI and now
> we are experimenting this routing methode in my local area (North East of
> Italy).
> I never see any information in the APRS Protocol specification, so I've
> tried to understand the routing rules testing the D700.
k

The original docs are in the README\DIGIS.TXT in all distributions of
APRSdos...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 21 11:07:09 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05705
for <lyris.aprsspec@tapr.org>; Fri, 21 Apr 2000 11:07:06 -0500 (CDT)
Message-ID: <LYR11589-79015-2000.04.21-11.07.26--
lyris.aprsspec@tapr.org>
Reply-To: "Thomas M. Schaefer" <ny4i@arrl.net>
From: "Thomas M. Schaefer" <toms@inconnect.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <Pine.GSO.4.05L.10004201852160.21455-100000@arctic>
<LYR10608-78893-2000.04.20-18.07.44--toms@inconnect.com@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
Date: Fri, 21 Apr 2000 10:04:24 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <013701bfabab\$44a8e560\$6ec6ed89@SC017588>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

My sole point was that the term "official" program is not correct especially coming from Bob. I mentioned the WG simply because the WG (of which Bob is a founding member) is not supposed to call anything official. There are a bunch of windows program now and soon available, so calling anything "official" is wrong.

It would help if the WG clearly said, "No program has exclusive recommended

or "official" status with the WG. All licensed programs are viewed equally.

I will give the benefit of the doubt and ASSUME that the "official" was a carry-over from the days when Bob closely controlled licensing for APRS programs. Those days are over, right? If anything is answered here, that question should be!

Tom NY4I

----- Original Message -----

From: "Jeff King" <jeff@aerodata.net>

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Thursday, April 20, 2000 5:07 PM

Subject: [aprssig] Re: "Official" Programs

>

>

> Bob Bruninga wrote:

>

> > The LIST I refered to is the LIST. AND HAS NOTHING TO DO WITH THE SIG or
> > THE WG!

> >

> > Forget it.

>

> Understood. Yet this does not detract from the validity of the points the
fellow(s) raised. I take it

> we are doing a Clinton here.

>

> Its forgotten.

>

> 73

>

> Jeff

>

>

>

> ---

> You are currently subscribed to aprssig as: toms@inconnect.com

> To unsubscribe send a blank email to leave-aprssig-10608E@lists.tapr.org

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 21 12:20:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA09142
for <lyris.aprsspec@tapr.org>; Fri, 21 Apr 2000 12:20:32 -0500 (CDT)
Message-Id: <LYR11589-79029-2000.04.21-12.20.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
Date: Fri, 21 Apr 2000 13:19:44 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004211719.NAA18902@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As a reminder, I am no longer a member of the APRSWG, these comments are strictly my own...That said, I think this discussion is way out of line. Gee, imagine me with a strong opinion ;-)

I thought all the discussion last year had made the issues the APRS WG adressed clear, but either I was mistaken, or memory has faded over time.

>My sole point was that the term "official" program is not correct especially
>coming from Bob. I mentioned the WG simply because the WG (of which Bob is a
>founding member) is not supposed to call anything official. There are a
>bunch of windows program now and soon available, so calling anything
>"official" is wrong.

>

>It would help if the WG clearly said, "No program has exclusive recommended
>or "official" status with the WG. All licensed programs are viewed equally.

>

>I will give the benefit of the doubt and ASSUME that the "official" was a
>carry-over from the days when Bob closely controlled licensing for APRS
>programs. Those days are over, right? If anything is answered here, that
>question should be!

The Charter says exactly the opposite, that pre-existing deals are not affected by the formation of the APRS WG.

There are contracts between Bob and other authors that must be honored, the formation of the APRSWG does not change these legal documents.

Indeed, the clause is in the charter specifically because of these contracts, the APRS WG could never have been formed without this clause.

No one ever said that all APRS versions are equal. Bob has a registered trademark on APRS. He can use this in any way he sees fit, and make any deals involving it he chooses.

My point in creating the hubbub last year at this time was never that Bob does not have a right to this trademark. He does, absolutely and totally, and I am completely behind this. You cannot use the term APRS without Bob's approval. To the best of my knowledge, he allows all developers that are not charging for their software to use it without charge, but he is under no obligation to do so. He is absolutely, legally free to call anything he chooses "the official APRS version".

What I objected to was that this trademark somehow applied to the protocol, or that the protocol could be copyrighted. Innovation and competition was being stifled without a legal basis in my opinion. This was my objection, and opening APRS development to all was what the APRSWG is about, not about stripping Bob of his legal rights to his trademark. The number of new software releases over the last year have been the result, and a very positive one. Just don't go trying to make the APRSWG more than it is...all versions of APRS-compatible software are not equal!

I can hear the objections now...this is ham radio, you can't (or its not right to) make money. Well, no one whines that Kenwood, Yaesu, et al make money, no one whines about AES or HRO. It always makes me mad that people think software is different. Just because the product is shipped by electrons alone (unlike Kenwood's products that require attached nuclei) does not change anything. Indeed, the failure of the public to recognize this has resulted in a new software copyright law that significantly impinges on all our freedoms. If you didn't know, those shrink wrap licenses are now legal, you do not own your software any longer, the manufacturer can force you to stop using it when they choose.) I choose not to charge for my software and services. That is a personal choice, which I am free to make, as are others. But I will defend to the death the rights of other software authors to choose a different path.

It was very traumatic getting the developers to agree to the concepts expressed in the APRS WG charter. Bob did not agree with my opinion that the protocol did not belong to him, and we both had gotten legal opinions that told us what we wanted to hear (big surprise!). Bob very graciously agreed not to press his claim, and to open development up. Please, don't try to strip him of property that is undeniably his, the APRS trademark.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 21 14:01:49 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA12756
for <lyris.aprsspec@tapr.org>; Fri, 21 Apr 2000 14:01:49 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-79054-2000.04.21-14.02.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 21 Apr 2000 15:01:51 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
References: <LYR11601-79029-2000.04.21-12.20.52--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3900A59F.B6799242@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Steve:

Thanks for the good review of last May's agreement. Your 100% correct, these things have been discussed before. However, I want to point out a fact that was missing. But first one point you raised.

Steve Dimse wrote:

> Please, don't
> try to strip him of property that is undeniably his, the APRS trademark.

Did Thomas ever suggest this? Serious question, I didn't see this so maybe I missed it. I think he is confusing the APRS trademark with the term "APRS certified, which was promised, but has not yet been implemented. I don't think he is trying to deny the property of anyone, but is making a understandable mistake.

Now as to the history lesson, it appeared factually correct. Yet we have to visit this thing called "appearances" once again. When the WG was formed, it consisted of 2 TAPR reps, and all the APRS Bob licensed (past and present) authors. Neither the author of UI-View or XASTIR was asked to be on the WG. In fairness, this was brought up on the SIG at about that time, and it was explained away as neither of them had "asked" to be on the WG.... it had nothing to do with them not being a Bob approved author. OK, but I later found out that some authors on the WG were indeed recruited, so this "asking" thing kinda seemed a little hollow to me at the time.

Now fast forward to the future. With you leaving the WG, the only authors sitting on the WG still are Bob licensed APRS authors. I guess no-one asked, right? The "appearances" still are here, even though our choices of "unlicensed" APRS authors has increased 4 fold. In addition to XASTIR and UI-VIEW, we now have at least 10 other people writing APRS type code.

While no-one may have "asked" to join the WG, it might be best for appearances that the APRS-WG try and recruit a new member that has proven "OPEN SOURCE" type mindset to replace your departure. It could only benefit the long term growth of APRS.

In my eyes (and I'm NOT putting words in Thomas's mouth) this is how *I* read what Thomas posted. That the closed mindset still exists..... it was not a smoking gun, but just the general attitude of us vs. them. Maybe he read too much into it, but I think the point was valid in May of 1999 and is still valid today.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 21 14:59:06 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA15063
for <lyris.aprsspec@tappr.org>; Fri, 21 Apr 2000 14:59:06 -0500 (CDT)
Message-Id: <LYR11589-79066-2000.04.21-14.59.35--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
Date: Fri, 21 Apr 2000 15:56:54 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>,
"TAPR APRS Special Interest Group" <aprssig@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200004211956.PAA10799@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 4/21/00 3:01 PM Jeff King (jeff@aerodata.net) wrote:

>> Please, don't
>> try to strip him of property that is undeniably his, the APRS trademark.
>
>Did Thomas ever suggest this? Serious question, I didn't see this so maybe I
>missed it. I think he is confusing the APRS trademark with the term "APRS
>certified, which was promised, but has not yet been implemented. I don't
>think he is trying to deny the property of anyone, but is making a
>understandable
>mistake.
>
If I may quote:

>On 4/20/00 5:41 PM Thomas M. Schaefer (toms@inconnect.com) wrote:
>
>>While I cannot concur that any program is the "real" implementation, I feel
>>it is grossly inappropriate for anything to say the "official" version of
>>any software.

I read tthis as saying that Bob has no right to call a program
"official", which certainly implies that Bob does not own the term APRS.
The "Official Windows APRS" label is something that is part of a contract
that existed long before the APRS WG, saying Bob can't do it means

voiding the contract, depriving Bob of the rights to his trademark as well as income from the licensing deal. This is wrong. The trademark is his to use as he sees fit!

>Now fast forward to the future. With you leaving the WG, the only authors
>sitting on the
>WG still are Bob licensed APRS authors.

TAPR is not a licensee of the APRS trademark, and it still has a seat on the APRS WG, currently occupied by Greg Jones.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 21 15:46:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA16833
for <lyris.aprsspec@tapr.org>; Fri, 21 Apr 2000 15:46:32 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-79089-2000.04.21-15.47.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 21 Apr 2000 16:46:32 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
References: <200004211956.PAA10799@raptor.netrox.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3900BE28.FCBD82E8@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Listen to what was being suggested. MINDSET.

Steve Dimse wrote:

```
> On 4/21/00 3:01 PM Jeff King (jeff@aerodata.net) wrote:
>
> >> Please, don't
> >> try to strip him of property that is undeniably his, the APRS trademark.
> >
> >Did Thomas ever suggest this? Serious question, I didn't see this so maybe I
> >missed it. I think he is confusing the APRS trademark with the term "APRS
> >certified, which was promised, but has not yet been implemented. I don't
> >think he is trying to deny the property of anyone, but is making a
> >understandable
> >mistake.
> >
> If I may quote:
>
> >On 4/20/00 5:41 PM Thomas M. Schaefer (toms@inconnect.com) wrote:
> >
> >>While I cannot concur that any program is the "real" implementation, I feel
> >>it is grossly inappropriate for anything to say the "official" version of
> >>any software.
> >
> I read tthis as saying that Bob has no right to call a program
> "official", which certainly implies that Bob does not own the term APRS.
> The "Official Windows APRS" label is something that is part of a contract
> that existed long before the APRS WG, saying Bob can't do it means
```

I think the theme of his message was MINDSET. He never said "Official Windows APRS" he said "official".

My *point* was you could just as easily confuse "official" APRS-WG certified license with "official" APRS trademark. As the former has been promised, but not implemented, why are you so sure he is referring to the trademark?

He never mentioned trademark. Instead of both of us guessing, why don't we see what he says? Or maybe he is the only sane one among us and gave up long ago on this thread...

```
> >Now fast forward to the future. With you leaving the WG, the only authors
> >sitting on the
> >WG still are Bob licensed APRS authors.
> >
> TAPR is not a licensee of the APRS trademark, and it still has a seat on
> the APRS WG, currently occupied by Greg Jones.
```

And your point?

Yes, I am aware of this and stated it in my message (which you didn't quote). Greg Jones of TAPR brokered the formation of the APRS-WG. He and John Ackerman, also of TAPR, were given seats on the WG along with the other Bob licensed APRS authors.

But neither Greg nor John are APRS authors, licensed or otherwise (that I know of).

More to the point, would you care to comment on what I was saying, that we should encourage the APRS-WG to have non licensed APRS/OPEN SOURCE authors/types sit on it? I thought you would be supportive of this..... maybe not?

This really is going nowhere, nothing against you, but these things were beat on time and time again back in the May-June 1999 time frame. No one gives a damn, other than an incredibly small percentage of the TAPR membership, so I'm fooling myself if I think they do (I'm serious here).

Elvis has left the building. ;-)

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 22 07:37:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01228
for <lyris.aprsspec@tapr.org>; Sat, 22 Apr 2000 07:37:33 -0500 (CDT)
Message-Id: <LYR11589-79217-2000.04.22-07.38.00--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
Date: Sat, 22 Apr 2000 08:36:48 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>,
"TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004221236.IAA09782@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/21/00 4:46 PM Jeff King (jeff@aerodata.net) wrote:

>I think the theme of his message was MINDSET. He never said "Official Windows
>APRS" he said "official".

>

Bob said "Official Windows Version", which is what started all this
flap...Tom simply shortened it to "official".

>My *point* was you could just as easily confuse "official" APRS-WG certified
>license with "official" APRS trademark. As the former has been promised,
>but not implemented, why are you so sure he is referring to the trademark?

>

Please read the WG charter again. The certification committee of the WG
issues an "APRS Certified" label. As of when I left the WG, none had been
issued to any program. The word "official" only occurs once in the
document, in a completely unrelated context. There is no "official"
APRS-WG License, just the "APRS Certified (TM)" label. The "Official"
designation is a pre-existing one, and must be honored under the terms of
the APRSWG charter.

>More to the point, would you care to comment on what I was saying, that we
>should

>encourage the APRS-WG to have non licensed APRS/OPEN SOURCE authors/types
>sit on it? I thought you would be supportive of this..... maybe not?

>

When I left the APRS WG, I made a recommendation of people I thought
would be appropriate to replace me, and I told several other people of
that opinion as well. I did so in private, as is my right, and it is a
topic I choose to continue to remain silent on publicly. I do not think
it is my right as a resigning member to choose my successor, or to
publicly campaign for anyone. It is up to the APRSWG to choose if, and
who, to add to their roster in accordance with their charter.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 23 16:52:36 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02602
for <lyris.aprsspec@tappr.org>; Sun, 23 Apr 2000 16:52:34 -0500 (CDT)
Message-Id: <LYR11589-79454-2000.04.23-16.53.09--
lyris.aprsspec#tappr.org@lists.tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "TAPR APRS Special Interest Group" <aprssig@lists.tappr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
In-reply-to: Your message of "Fri, 21 Apr 2000 10:04:24 MDT."
<LYR1606-79013-2000.04.21-11.05.06--AG9V#TAPR.ORG@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Date: Sun, 23 Apr 2000 17:50:25 -0300
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200004232150.RAA08450@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Tom, NY4I, wrote:

> My sole point was that the term "official" program is not correct especially
> coming from Bob. I mentioned the WG simply because the WG (of which Bob is a
> founding member) is not supposed to call anything official. There are a
> bunch of windows program now and soon available, so calling anything
> "official" is wrong.
>
> It would help if the WG clearly said, "No program has exclusive recommended
> or "official" status with the WG. All licensed programs are viewed equally.
>
> I will give the benefit of the doubt and ASSUME that the "official" was a
> carry-over from the days when Bob closely controlled licensing for APRS
> programs. Those days are over, right? If anything is answered here, that
> question should be!

Your take is pretty much correct. Bob's reference to WinAPRS as the
"official" Windows version is related to the fact that it is the only
one that he (Bob, not the WG) has licensed to use the APRS trademark,
which Bob, not the Working Group, owns. That agreement was in effect
long before the Working Group existed.

>From the WG's perspective, there is no "official" APRS version for any
platform.

We hope that there will be a certification program that will allow developers to obtain an "APRS Certified" (or something similar) designation if their programs meet the requirements of the protocol spec. That program will be open to all comers and there could be many "APRS Certified" implementations for a given platform. But that certification trademark will be different from the right to use "APRS" in a product name, which Bob continues (rightfully) to control.

John N8UR
jra@febo.com
APRS Working Group Chairman

--

John Ackermann N8UR
Dayton, Ohio, USA
jra@febo.com -- <http://www.febo.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.3a

mQBtAzgI9hgAAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI
Fph4/RqL9vVEItWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHWARQXjC1I8cFZjY
TSe16ffq0/ba1ukLnQAFebQlSm9obiBSLiBBY2t1cm1hbm4gTjhVUiA8anJhQGZl
Ym8uY29tPokAdQMFEDgI9hjQ0/ba1ukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw
+W5Z6Tu4UI654t9diGdCcIEPj0G1qUvwH2Xop0Yj9QGoM4NnHIw6qUSN5VH7hHKA
bGnpuTxinuW/gKaI3bt2MC8QZZq0gy2de269071E2A==
=UHWl

-----END PGP PUBLIC KEY BLOCK-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 23 22:00:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA14595
for <lyris.aprsspec@tapr.org>; Sun, 23 Apr 2000 21:59:59 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 23 Apr 2000 22:45:46 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org> ,

APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: "Official" Programs
In-Reply-To: <LYR10461-79456-2000.04.23-16.54.47--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-79564-2000.04.23-21.52.18--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004232243230.19014-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 23 Apr 2000, John Ackermann wrote:

<snip>

> certification trademark will be different from the right to use "APRS"
> in a product name, which Bob continues (rightfully) to control.

And, which I might add is available for only a very modest small fee...
for programs that work... <grin>
:-)

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 24 11:32:19 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA23637
for <lyris.aprsspec@tappr.org>; Mon, 24 Apr 2000 11:32:15 -0500 (CDT)
Message-ID: <LYR11589-79680-2000.04.24-11.32.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 24 Apr 2000 09:31:14 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] An Offer
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20000424163114.28188.qmail@web902.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, All...

As of late, there have been a number of suggestions that someone should fill Steve Dimse's position on the WG and that person should have an "open" orientation.

I would like to offer myself for that position. I have communicated with Bob and he appears to have little problem with my "application".

I am approaching this as a software author who is trying to bring into existence code based on the APRS standard. I have no allegiance to anyone's previous implementation nor any particular criticisms with any of them (other than the view that most are too complex to configure).

I would bring a pragmatic view to the WG. I tend to work as a bridge builder.

My own background is Electrical Engineering. I have a PhD from Colorado State (1971). I have worked at Tektronix designing oscilloscope plugins, at the College of Oceanography of Oregon State Univ. as an instrumentation engineer, and currently at Kalatel in Corvallis, OR, as an analog circuit designer and embedded processor programmer (8051 & AVR).

Non-professionally, I've enjoyed Macintosh computers and have done some Pascal, C, C++, and now visual-basic on that platform.

I've been a ham since about 1980 with a TechPlus most of that time. Packet has been my passion since getting that TechPlus. I have been involved in a variety of low-level networking protocol designs, professionally, and have been working with APRS for close to a year.

Most sincerely,
Jim Wagner, KA7EHK
Tangent, OR, USA

Do You Yahoo!?
Send online invitations with Yahoo! Invites.
<http://invites.yahoo.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 11:35:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA23788
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 11:35:57 -0500 (CDT)
Message-Id: <LYR11589-79682-2000.04.24-11.36.38--
lyris.aprsspec@tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 24 Apr 2000 11:27:07 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: An Offer
In-Reply-To: <LYR11608-79680-2000.04.24-11.32.45--dvanhorn@cedar.net@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.0.1.20000424112623.03acae80@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>My own background is Electrical Engineering. I have a
>PhD from Colorado State (1971). I have worked at Tektronix
>designing oscilloscope plugins, at the College of Oceanography
>of Oregon State Univ. as an instrumentation engineer, and
>currently at Kalatel in Corvallis, OR, as an analog circuit
>designer and embedded processor programmer (8051 & AVR).

An AVR head! You've got my vote :)

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOQSR+4FlGDz1l6VWEQJyiQCgnYGVVGkL3xVn7vPxhS1bLy2hQ9wAoIre
VihLUvLrjr502WhR1tL/D+Ie
=zTu7

-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 13:13:54 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA27925
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 13:13:49 -0500 (CDT)
Message-Id: <LYR11589-79700-2000.04.24-13.14.29--
lyris.aprsspec@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Mon, 24 Apr 2000 11:06:04 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Version 1
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.1.2.20000424105625.00bab4f0@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'd like to see Version 1 of the protocol published ASAP. I know Ian is working hard on doing just that. I would hate to see that postponed or prolonged by any new dynamics within the WG. Version 1 is long overdue as is.

My suggestion is get Version 1 published first, get that done and out of the way, then the decks would be clear to focus on WG membership and other issues (like Version 2).

73, Cap KE6AFE

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 13:40:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA28647
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 13:40:00 -0500 (CDT)
Message-ID: <LYR11589-79707-2000.04.24-13.40.21--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 24 Apr 2000 19:32:53 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Version 1
References: <LYR14779-79700-2000.04.24-13.14.29--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-79700-2000.04.24-13.14.29--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <qrrstMAVNJB5Ewiq@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-79700-2000.04.24-13.14.29--Ian.Wade#care4free.net@lists.tapr.org>, Cap Pennell <cap@cruzio.com> writes
>I'd like to see Version 1 of the protocol published ASAP. I know Ian is
>working hard on doing just that. I would hate to see that postponed or
>prolonged by any new dynamics within the WG. Version 1 is long overdue as is.
>
>My suggestion is get Version 1 published first, get that done and out of
>the way, then the decks would be clear to focus on WG membership and other
>issues (like Version 2).

Hi Cap. The spec for Protocol Version 1.0 is almost complete, and the
Working Group are now checking it out prior to public release.

With luck you will see it "Real Soon Now"!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 14:19:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA00373
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 14:19:06 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-79711-2000.04.24-14.19.47--
lyris.aprsspec@tapr.org>
Date: Mon, 24 Apr 2000 15:19:53 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Open source APRS "clone" authors
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <39049E59.F0478290@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To my knowledge, these are the software authors of open source APRS
type programs. None of them are presently are on the WG. Please add to this
list if I missed anyone. Open source meaning that they publish the source

code but most importantly encourage others to build on there work.

XASTIR	Frank Giannan	Full featured open source GUI for linux with i-gate
APRSDIGI	Wes Johnston	APRSDIGI for DOS
HAMHUD	Steve Bragg	APRS display device with innovative map matching features
APRSD	wa4dsy	APRS i-gate for Linux, supports messaging
APRSMON	Alan ?	APRS digipeater for Linux
GPS-E	John Hansen	APRS tracker (MIC-E clone) for PIC (C code)
pice	Byron Garrabrant	APRS tracker (MIC-E clone) for PIC (assembly)
ram_digi	Mike Berg	APRS digi on a PIC
PIC_PALM	Mike Berg	APRS receiver for PALM PILOT
U2K	Steve Dimse	APRS weather formatting program for PEET brothers
JAVAAPRS	Steve Dimse	JAVA APRS display applet

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 14:44:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA01218
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 14:44:41 -0500 (CDT)
Message-ID: <LYR11589-79713-2000.04.24-14.45.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: pc@mds.com (Alfred Lee, Mail List Account)
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Open source APRS "clone" authors
Date: Mon, 24 Apr 2000 12:41:46 -0700
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01BFADEA.74408080.pc@mds.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All,

I have a code base for experimenting with APRS using HP200LX (XT DOS)

and Baycom modem that I am willing to make public. However, I don't think there being too much interest in this kind of setup as I am not aware of any one else using my program since I published it. Some interesting info:

<http://www.geocities.com/CapeCanaveral/Hangar/9412/>
<http://www.geocities.com/CapeCanaveral/Hangar/9412/airp/>
<http://www.geocities.com/CapeCanaveral/Hangar/9412/airp/Airp1.htm>

Note: this program makes no attempt to comply with the APRS standard but only as an experimentation vehicle for accessing the APRS network.

Alfred

From: Jeff King[SMTP:jeff@aerodata.net]
Sent: Monday, April 24, 2000 12:19 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Open source APRS "clone" authors

To my knowledge, these are the software authors of open source APRS type programs. None of them are presently are on the WG. Please add to this list if I missed anyone. Open source meaning that they publish the source code but most importantly encourage others to build on there work.

XASTIR	Frank Giannan	Full featured open source GUI for linux with i-gate
APRSDIGI	Wes Johnston	APRSDIGI for DOS
HAMHUD	Steve Bragg	APRS display device with innovative map matching features
APRSD	wa4dsy	APRS i-gate for Linux, supports messaging
APRSMON	Alan ?	APRS digipeater for Linux
GPS-E	John Hansen	APRS tracker (MIC-E clone) for PIC (C code)
pice	Byron Garra-brant	APRS tracker (MIC-E clone) for PIC (assembly)
ram_digi	Mike Berg	APRS digi on a PIC
PIC_PALM	Mike Berg	APRS receiver for PALM PILOT
U2K	Steve Dimse	APRS weather formatting program for PEET brothers
JAVAAPRS	Steve Dimse	JAVA APRS display applet

You are currently subscribed to aprsspec as: pc@mds.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 14:46:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA01269
for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 14:46:07 -0500 (CDT)
Message-Id: <LYR11589-79714-2000.04.24-14.46.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>, jra@meow.febo.com
Subject: [aprsspec] Re: Version 1
In-reply-to: Your message of "Mon, 24 Apr 2000 11:06:04 PDT."
<LYR11592-79700-2000.04.24-13.14.29--n8ur#tapr.org@lists.tapr.org>
Date: Mon, 24 Apr 2000 15:45:33 -0300
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004241945.PAA16919@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Cap and the gang --

I think the protocol spec is not far off, and I personally (not speaking for the WG) agree with you that it would be a mistake to make changes before that step is finalized. After the spec comes out, the WG will need to shift its thinking from documenting what is, to helping define what will be, and that will be the time to consider new members.

I hope that time will come very soon now, but I'd better let Ian speak for himself. :-)

John N8UR
jra@febo.com

In message <LYR11592-79700-2000.04.24-13.14.29--n8ur#tapr.org@lists.tapr.org>, Cap Pennell writes:

>I'd like to see Version 1 of the protocol published ASAP. I know Ian is
>working hard on doing just that. I would hate to see that postponed or
>prolonged by any new dynamics within the WG. Version 1 is long overdue as is.
>

>My suggestion is get Version 1 published first, get that done and out of
>the way, then the decks would be clear to focus on WG membership and other

>issues (like Version 2).
>73, Cap KE6AFE
>--
>Cap Pennell
>Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
>email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>
>packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam
>
>
>---
>You are currently subscribed to aprsspec as: n8ur@tapr.org
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 24 19:03:48 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA10541
 for <lyris.aprsspec@tapr.org>; Mon, 24 Apr 2000 19:03:44 -0500 (CDT)
Message-ID: <LYR11589-79750-2000.04.24-19.04.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-79680-2000.04.24-11.32.45--ssampson#usa-
site.net@lists.tapr.org>
Subject: [aprsspec] Re: An Offer
Date: Mon, 24 Apr 2000 19:01:10 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <002101bfae49\$5d0c5c40\$83228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I for one, second the nomination. Jim has been the guy who has

asked the best questions of the current spec, pointed out the completely bogus, and I think the final specs will be better from his contributions.

I think we should be careful about how many PhD holders are in there though (I'm kidding!)

Steve/k5okc

----- Original Message -----

> I would like to offer myself for that position. I have
> communicated with Bob and he appears to have little problem
> with my "application".

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 01:40:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA11114
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 01:40:24 -0500 (CDT)
Message-ID: <LYR11589-80246-2000.04.27-01.41.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 27 Apr 2000 07:38:33 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Wanted: telnet client
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <jc0eQbApB+B5EwQp@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

For testing some new APRS software, I need a Win95 telnet client that:

- a. will save all dialog to disk
- b. will not line wrap or truncate at 80 characters

c. will not drop any non-printing ASCII characters in the range 0x00 to 0x7f.

Pointer(s) anyone?

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 07:50:33 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA28199

for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 07:50:32 -0500 (CDT)

From: "Rob Wittner" <rmw@rwa-inc.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: Wanted: telnet client

Date: Thu, 27 Apr 2000 08:49:41 -0400

Message-ID: <LYR11589-80269-2000.04.27-07.51.14--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

X-Priority: 3 (Normal)

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300

In-Reply-To: <LYR11697-80246-2000.04.27-01.41.10--rmw#rwa-inc.com@lists.tapr.org>

Importance: Normal

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <NCBBLCALKLCLLFGBMFCMOEMBDGAA.rmw@rwa-inc.com>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

If I am not mistaken, HyperTerminal meets your requirements. However, I
am talking about the Windows 98 version - I'm not sure if the Win95
version has the telnet piece built-in. (I've used HT frequently to collect
a data stream from APRServe to feed to APRS/CE. The vanilla Windows telnet
client wraps at 80 columns, rendering a large part of the data stream
useless - though I guess it is useful to see how to gracefully handle bad
data.)

-Rob
KZ5RW

:-----Original Message-----

:From: bounce-aprsspec-11697@lists.tapr.org
:[mailto:bounce-aprsspec-11697@lists.tapr.org]On Behalf Of Ian Wade
:Sent: Thursday, April 27, 2000 2:39 AM
:To: APRS Spec Discussion List
:Subject: [aprsspec] Wanted: telnet client

:
:For testing some new APRS software, I need a Win95 telnet client that:

:
:a. will save all dialog to disk

:
:b. will not line wrap or truncate at 80 characters

:
:c. will not drop any non-printing ASCII characters in the range
:0x00 to 0x7f.

:
:Pointer(s) anyone?

:

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 08:23:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA29085
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 08:23:34 -0500 (CDT)
Message-ID: <LYR11589-80273-2000.04.27-08.22.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 27 Apr 2000 14:18:22 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Compressed position reports
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <NuhQFgAe4DC5Ew+J@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

(I hope you folks don't mind a comment from an "unofficial" author ;-)

There is an obvious difference between the behaviour of ARPSTK and the APRS spec in terms of encoding/decoding compressed position reports.

The difference isn't great in absolute terms, but it is certainly highly significant in the context of the claim in the spec that an advantage of compression is "Improved position to 1 foot worldwide." The difference between decoding the same compressed posit according to the spec and decoding it in ARPSTK using my location as the sample data is about one mile.

Is there an error in the spec? (I'm using aprs101g.pdf.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 27 09:25:25 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA01408
for <lyris.aprsspec@tappr.org>; Thu, 27 Apr 2000 09:25:25 -0500 (CDT)
Message-ID: <LYR11589-80281-2000.04.27-09.26.05--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Thu, 27 Apr 2000 15:04:33 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Compressed position reports
References: <LYR14779-80273-2000.04.27-08.22.26--

Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-80273-2000.04.27-08.22.26--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <NmR10qAxjEC5EwvK@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-80273-2000.04.27-08.22.26--Ian.Wade#care4free.net@lists.tapr.org>, Roger Barker <roger@peaksys.co.uk> writes
>(I hope you folks don't mind a comment from an "unofficial" author ;-)
>
>There is an obvious difference between the behaviour of ARPSTK and the
>APRS spec in terms of encoding/decoding compressed position reports.
>
>The difference isn't great in absolute terms, but it is certainly highly
>significant in the context of the claim in the spec that an advantage of
>compression is "Improved position to 1 foot worldwide." The difference
>between decoding the same compressed posit according to the spec and
>decoding it in APRSTK using my location as the sample data is about one
>mile.
>
>Is there an error in the spec? (I'm using aprs101g.pdf.)
>

Roger, could you please mail me the offending packet(s). I'll look into it.

Thanks.

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 09:25:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA01421
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 09:25:32 -0500 (CDT)
Message-ID: <LYR11589-80282-2000.04.27-09.26.24--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 27 Apr 2000 15:13:00 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] RE: Wanted: telnet client
References: <LYR11697-80246-2000.04.27-01.41.10--rmw#rwa-inc.com@lists.tapr.org>
<LYR14779-80269-2000.04.27-07.51.14--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-80269-2000.04.27-07.51.14--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <E2G36vAsrEC5Ewvn@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-80269-2000.04.27-07.51.14--Ian.Wade#care4free.net@lists.tapr.org>, Rob Wittner <rmw@rwa-inc.com> writes
>

>If I am not mistaken, HyperTerminal meets your requirements. However, I
>*am* talking about the Windows 98 version - I'm not sure if the Win95
>version has the telnet piece built-in. (I've used HT frequently to collect
>a data stream from APRSServe to feed to APRS/CE. The vanilla Windows telnet
>client wraps at 80 columns, rendering a large part of the data stream
>useless - though I guess it is useful to see how to gracefully handle bad
>data.)

That's exactly the problem Rob! I wrote a simple joinline program in
Basic to join those lines which wrapped around at 80 characters -- the
problem is, if a line is *exactly* 80 characters long (and many are) I
then have to manually split the join I've just made. This is a veritable
pain in the subroutines when you're handling a 14000 line file (as I was
this morning...)

I'll look into Hyperterminal. Thanks Rob.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 10:57:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA05136
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 10:57:19 -0500 (CDT)
Message-Id: <LYR11589-80296-2000.04.27-10.56.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: rasdpaul@pop.rasdoc.com
Date: Thu, 27 Apr 2000 11:57:02 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Paul Breed <Paul@rasdoc.com>
Subject: [aprsspec] Re: Wanted: telnet client
In-Reply-To: <LYR14899-80246-2000.04.27-01.41.10--Paul#rasdoc.com@lists.
tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.2.0.58.20000427115533.01bfc6a0@pop.rasdoc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Does it have to do the Telnet option negotiation, or just open a TCP
connection?

Is it ok if it truncates the display to 80 cols, but saves the untruncated
dialog to disk?

Paul (K17JG)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 11:00:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05226
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 11:00:18 -0500 (CDT)
Date: Thu, 27 Apr 2000 08:59:50 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Wanted: telnet client
In-Reply-To: <LYR12892-80282-2000.04.27-09.26.24--
hacker@tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-80298-2000.04.27-11.01.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10004270856520.19358-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 27 Apr 2000, Ian Wade wrote:

> That's exactly the problem Rob! I wrote a simple joinline program in
> Basic to join those lines which wrapped around at 80 characters -- the
> problem is, if a line is *exactly* 80 characters long (and many are) I
> then have to manually split the join I've just made. This is a veritable
> pain in the subroutines when you're handling a 14000 line file (as I was
> this morning...)
>
> I'll look into Hyperterminal. Thanks Rob.

If you've got Perl 5.something installed on the box, I can send you
a VERY small Perl script that implements telnet. I use it to connect

to the APRS feed and log packets of interest. It has NO rules for data mangling, but you can add your own if you wish. What you see is what you get.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 11:36:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06458
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 11:35:57 -0500 (CDT)
Date: Thu, 27 Apr 2000 11:35:34 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-80303-2000.04.27-11.36.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Wanted: telnet client
In-Reply-To: <LYR11595-80296-2000.04.27-10.56.04--
salo#networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200004271635.LAA57142@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Thu, 27 Apr 2000 11:57:02 -0400
> To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
> From: Paul Breed <Paul@rasdoc.com>
> Subject: [aprsspec] Re: Wanted: telnet client
>
> Does it have to do the Telnet option negotiation, or just open a TCP
> connection?
> [...]

APRServe does not appear to try to negotiate telnet options. (I don't think APRServe responds to telnet option negotiations, either.)

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 12:11:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA07988
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 12:11:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 27 Apr 2000 13:08:17 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80273-2000.04.27-08.22.26--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80305-2000.04.27-12.12.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10004271257580.11984-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 27 Apr 2000, Roger Barker wrote:

> There is an obvious difference between the behaviour of ARPSTK and the
> APRS spec in terms of encoding/decoding compressed position reports.
> ... about one mile.

Good question. Or Could be in APRStk? How about sending us your
posit data, and the posit generated by APRStk so we can see whats going
on. Thanks. Wouldn't surprise me if a bug crept into the eastern
hemisphere..

Here is a sample for my office position...

LAT	LONG	YYYYXXXX
-----		-----

3859.11N/07629.11W => :h_!;/n!

I hope thats what everyone else gets. All versions of APRS dos can display the compressed format of any location of the cursor. Just hit MAPS-PLOTS-FORMAT and it will display the YYYYXXXX value in the upper left corner.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 12:30:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA08729
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 12:30:44 -0500 (CDT)
Date: Thu, 27 Apr 2000 12:28:19
Subject: [aprsspec] Re: Compressed position reports
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Roger Barker" <roger@peaksys.co.uk>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-80308-2000.04.27-12.29.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 04/27/00, "Bob Bruninga <bruninga@nadn.navy.mil>" wrote:

> On Thu, 27 Apr 2000, Roger Barker wrote:

>

> > There is an obvious difference between the behaviour of ARPSTK and the
> > APRS spec in terms of encoding/decoding compressed position reports.

> > ... about one mile.

>

> Good question. Or Could be in APRStk? How about sending us your
> posit data, and the posit generated by APRStk so we can see whats going
> on. Thanks. Wouldn't surprise me if a bug crept into the eastern
> hemisphere..

>

> Here is a sample for my office position...

>

```
> LAT      LONG      YYYYYXXX
> -----
> 3859.11N/07629.11W => :h_!;/n!
>
> I hope thats what everyone else gets. All versions of APRS dos can
> display the compressed format of any location of the cursor. Just hit
> MAPS-PLOTS-FORMAT and it will display the YYYYYXXX value in the upper left
> corner.
```

(Hope this works! The server that hosts my domain is down and all my incoming email is being bounced, so I'm sending this from the TAPR web site.)

You don't really need the example for my location, because, if you feed the example compressed posit in the spec - 5L5L<+%A which is supposed to be 4930.00N, 7245.00W - into APRSTK, it decodes it as 4929.71N, 7244.23W.

If you input 4930.00N, 7245.00W as your lat and long in APRSTK, there is a similar difference when it encodes the posit. It transmits 5L!!<*e!, which, when decoded according to the spec, is 4930.29N, 7245.78W.

Roger - G4IDE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 27 22:52:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA01487
for <lyris.aprsspec@tapr.org>; Thu, 27 Apr 2000 22:52:29 -0500 (CDT)
Message-ID: <LYR11589-80374-2000.04.27-22.52.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80308-2000.04.27-12.29.36--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
Date: Thu, 27 Apr 2000 20:49:50 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <006801bfb0c4\$ceebc620\$dc92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA01487

> You don't really need the example for my location, because, if you feed the
> example compressed posit in the spec - 5L5L<+%A which is supposed to be
> 4930.00N, 7245.00W - into APRSTK, it decodes it as 4929.71N, 7244.23W.
>
> If you input 4930.00N, 7245.00W as your lat and long in APRSTK, there is a
> similar difference when it encodes the posit. It transmits 5L!!<*e!, which,
> when decoded according to the spec, is 4930.29N, 7245.78W.
>
> Roger - G4IDE

5L!!<*e! decodes to 4930.00N, 7245.00W in APRS+SA.

APRS+SA decoder: 'NW' FmtLL ® LLCompress '5L5L<+%A'
N49°29.707' W72°44.223'
APRS+SA decoder: 'NW' FmtLL ® LLCompress '5L!!<*e!'
N49°30.000' W72°45.007'

Apparently, the spec is wrong.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 02:55:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA16609
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 02:55:38 -0500 (CDT)
Date: Fri, 28 Apr 2000 2:54:49
Subject: [aprsspec] Re: Compressed position reports
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Roger Barker" <roger@peaksys.co.uk>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Message-Id: <LYR11589-80402-2000.04.28-02.56.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
Precedence: bulk

On 04/27/00, ""Brent Hildebrand" <bhildebrand@earthlink.net>" wrote:
[snip]

>

> Apparently, the spec is wrong.

So is anyone going to suggest in what way it's wrong? It only takes a few minutes to work through the example maths in the spec, so presumably it should be a simple task for someone to say where the error is...

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 28 06:36:37 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA00187
for <lyris.aprsspec@tappr.org>; Fri, 28 Apr 2000 06:36:32 -0500 (CDT)
Message-ID: <LYR11589-80411-2000.04.28-06.37.24--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 28 Apr 2000 12:36:05 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Compressed position reports
References: <LYR14779-80402-2000.04.28-02.56.15--
Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-80402-2000.04.28-02.56.15--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <y1kKajAleXC5Ew4Q@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-80402-2000.04.28-02.56.15--Ian.Wade#care4free.net@lists.tappr.org>, Roger Barker <roger@peaksys.co.uk> writes
>On 04/27/00, ""Brent Hildebrand" <bhildebrand@earthlink.net>" wrote:
>[snip]
>>
>> Apparently, the spec is wrong.
>
>So is anyone going to suggest in what way it's wrong? It only takes a few
>minutes to work through the example maths in the spec, so presumably it
>should be a simple task for someone to say where the error is...
>

I'm workin' on it as fast as I can pedal! By golly, you're a HARD
taskmaster :-))

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: <http://www.tappr.org/tappr/html/Faprswg.html> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 28 07:40:54 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01880
for <lyris.aprsspec@tappr.org>; Fri, 28 Apr 2000 07:40:53 -0500 (CDT)
Message-ID: <LYR11589-80412-2000.04.28-07.39.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 28 Apr 2000 13:37:25 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Compressed position reports
References: <LYR14779-80402-2000.04.28-02.56.15--
Ian.Wade#care4free.net@lists.tappr.org>
<LYR13460-80411-2000.04.28-06.37.24--roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-80411-2000.04.28-06.37.24--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <nFHqvJAFYYC5EwIQ@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-80411-2000.04.28-06.37.24--roger#peaksys.co.uk@lists.tapr.org>, Ian Wade <Ian.Wade@care4free.net> writes
>In article <LYR14779-80402-2000.04.28-02.56.15--Ian.Wade#care4free.net@lists.tapr.org>, Roger Barker <roger@peaksys.co.uk> writes
>>On 04/27/00, ""Brent Hildebrand" <bhildebrand@earthlink.net>" wrote:
>>[snip]
>>>
>>> Apparently, the spec is wrong.
>>
>>So is anyone going to suggest in what way it's wrong? It only takes a few
>>minutes to work through the example maths in the spec, so presumably it
>>should be a simple task for someone to say where the error is...
>>
>
>I'm workin' on it as fast as I can pedal! By golly, you're a HARD
>taskmaster :-))

Ok, here's a little help! ;-)

The maths in the spec is logically correct, yet the result it gives has a small error compared to what is coming out of the "official" programs. There aren't too many ways that could happen with such a relatively simple calculation.

One obvious possibility is that the numbers 380972 and 190486 (which is 380972/2) are incorrect. Now if I change 380972 to 380927, I get almost the same answer as the "official" programs. There's still a small difference, but I have a good idea why that might occur.

So, I think a good starting point would be to find out whether the "official" programs are using 380972 or 380927...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 07:51:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA02148
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 07:51:01 -0500 (CDT)
Message-Id: <LYR11589-80413-2000.04.28-07.51.54--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: rasdpaul@pop.rasdoc.com
Date: Fri, 28 Apr 2000 08:53:04 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Paul Breed <Paul@rasdoc.com>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR14899-80412-2000.04.28-07.39.47--Paul@rasdoc.com@lists.
tapr.org>
References: <LYR13460-80411-2000.04.28-06.37.24--
roger@peaksys.co.uk@lists.tapr.org>
<LYR14779-80402-2000.04.28-02.56.15--Ian.Wade@care4free.net@lists.tapr.org>
<LYR13460-80411-2000.04.28-06.37.24--roger@peaksys.co.uk@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.2.0.58.20000428085136.01cfc100@pop.rasdoc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I believe that this sort of function should include some sample
code in the specification.

A pair of C functions, encode, and decode would be nice.
This is how it is done in a lot of the RFC's (Internet standards)

Paul (K17JG)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 08:53:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04059

for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 08:53:18 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 28 Apr 2000 09:49:51 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80402-2000.04.28-02.56.15--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80418-2000.04.28-08.51.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004280948520.27750-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 28 Apr 2000, Roger Barker wrote:

> > Apparently, the spec is wrong.
>
> So is anyone going to suggest in what way it's wrong? It only takes a few
> minutes to work through the example maths in the spec, so presumably it
> should be a simple task for someone to say where the error is...

I am up to my eyeballs in work and tonights Field-day at movie theaters
across the country. Plus a million other things. Ill try to take a look
soon..

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 08:53:49 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA04095
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 08:53:48 -0500 (CDT)

From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: roger@peaksys.co.uk
Subject: [aprsspec] Re: Compressed position reports
Date: Fri, 28 Apr 2000 16:52:13 +0300
Message-ID: <LYR11589-80421-2000.04.28-08.54.35--
lyris.aprsspec#tappr.org@lists.tappr.org>
References: <LYR14779-80402-2000.04.28-02.56.15--
Ian.Wade#care4free.net@lists.tappr.org> <LYR13460-80411-2000.04.28-06.37.24--
roger#peaksys.co.uk@lists.tappr.org> <LYR13206-80412-2000.04.28-07.39.47--
Paul.Keinanen#sci.fi@lists.tappr.org>
In-Reply-To: <LYR13206-80412-2000.04.28-07.39.47--
Paul.Keinanen#sci.fi@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <q45jgs4btualvguunqj212qu6dm3h29fsd@4ax.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 28 Apr 2000 13:37:25 +0100, Roger Barker <roger@peaksys.co.uk>
wrote:

>The maths in the spec is logically correct, yet the result it gives has
>a small error compared to what is coming out of the "official" programs.
>There aren't too many ways that could happen with such a relatively
>simple calculation.

Without having the source code for the "official" programs, the small
difference in the least significant digits makes me suspect that some
part of the calculation has been done in (single precision) floating
point, which has a precision of 6-7 digits. As a result, any digits
after the 6th or 7th are useless.

If the result is to be displayed with 1/100 minute resolution, it
would be natural to use an internal representation in which the 1/100
minute corresponds to an integer value of 1 (or 1.000 if someone
insist on using floating point values). In a binary floating point
representation, you can not express values like 2.01 exactly, but with
plenty (1-3 bits) of extra resolution, the displayed value can be
rounded and displayed correctly to two decimals.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 09:24:17 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05314
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 09:24:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 28 Apr 2000 10:22:44 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80412-2000.04.28-07.39.47--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80425-2000.04.28-09.24.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004280955000.27750-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 28 Apr 2000, Roger Barker wrote:

> Ok, here's a little help! ;-)
>
> One obvious possibility is that the numbers 380972 and 190486 (which is
> 380972/2) are incorrect. Now if I change 380972 to 380927, I get almost
> the same answer as the "official" programs. There's still a small
> difference, but I have a good idea why that might occur.

Maybe this will help...

The key numbers in my code are 4186 * (90-LAT)
and 2093 * (LON-180)

Where LAT and LONG are in decimal degrees. This gives the first 3 digits of the `YYY_XXX_` value. The last digit in X and Y are then just one 91th of the remainder.

Notice that if you divide 380972 by 91 you get 4186.5xxxx
But we used instead 380926 which is the product of 4186 and 91

The reason for this was that positions to `YYY_XXX_` can all be done with single precision integers and get you to a pretty good accuracy of about 100 feet worldwide (comparable to DD MM.HH) If you want to take the remainder and divide it by 91, then you can get precision down to about 1 foot. But we did not want to burden Pic processors with double precision integers where positional accuracies to the nearest 100 feet were good enough..

Hope that helps...
Bob

You are currently subscribed to aprsspec as: `lyris.aprsspec@tapr.org`
To unsubscribe send a blank email to `leave-aprsspec-11589P@lists.tapr.org`

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 12:13:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11850
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 12:13:23 -0500 (CDT)
Message-ID: <LYR11589-80457-2000.04.28-12.14.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 28 Apr 2000 18:10:26 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Compressed Posits: The spec IS wrong. Here's the fix
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <90d5EFACYcC5EwL0@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As several people have commented, it turns out that the spec covering encoding/decoding of compressed posits is (slightly :-)) wrong.

Refer to page 32 of the APRS Protocol Spec, draft version 1.0.1g, dated 3 December 1999 (at <http://www.tapr.org/tapr/html/Faprswg.html>).

In the "Lat/Long Encoding" section, the computations should be:

YYYY is $380926 * (90 - \text{latitude})$

XXXX is $190463 * (180 + \text{longitude})$.

In the "Lat/Long Decoding" section, the same big numbers are used as the divisors:

Lat = $90 - ((\dots\dots\dots) / 380926)$

Long = $-180 + ((\dots\dots\dots) / 190463)$

Using these numbers, the examples computed by Bob Bruninga and Brent Hildebrand in other threads on this list match correctly.

The longitude encoding/decoding examples in the spec will obviously have to be reworked. For now, this is left as an exercise for the reader ... (and if you decide to have a go, please let me know what you get for the 4 ASCII characters for 72.75 deg W). Hopefully I will get the same!

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 12:43:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12855
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 12:43:20 -0500 (CDT)

Message-ID: <LYR11589-80460-2000.04.28-12.42.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 28 Apr 2000 18:40:20 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Compressed position reports
References: <LYR11586-80412-2000.04.28-07.39.47--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR13460-80425-2000.04.28-09.24.48--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-80425-2000.04.28-09.24.48--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <LRHhqJAE0cC5EwMe@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-80425-2000.04.28-09.24.48--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga#nadm.navy.mil> writes
>On Fri, 28 Apr 2000, Roger Barker wrote:
>
>> Ok, here's a little help! ;-)
>>
>> One obvious possibility is that the numbers 380972 and 190486 (which is
>> 380972/2) are incorrect. Now if I change 380972 to 380927, I get almost
>> the same answer as the "official" programs. There's still a small
>> difference, but I have a good idea why that might occur.
>
>Maybe this will help...
>
>The key numbers in my code are $4186 * (90 - \text{LAT})$
>and $2093 * (\text{LON} - 180)$
>
>Where LAT and LONG are in decimal degrees. This gives the first 3 digits
>of the `YYY_XXX_` value. The last digit in X and Y are then just one 91th
>of the remainder.
>
>Notice that if you divide 380972 by 91 you get 4186.5xxxx
>But we used instead 380926 which is the product of 4186 and 91
>
>The reason for this was that positions to `YYY_XXX_` can all be done with
>single precision integers and get you to a pretty good accuracy of about
>100 feet worldwide (comparable to DD MM.HH) If you want to take the
>remainder and divide it by 91, then you can get precision down to about 1

>foot. But we did not want to burden Pic processors with double precision
>integers where positional accuracies to the nearest 100 feet were
>good enough..

So, presumably, all the APRS applications that could handle compressed posits at the time the spec was drawn up use your approximation? In that case, why does the spec not reflect that situation? I have seen it said enough times that the spec is supposed to be documenting the current situation. (That's a question to the WG in general, not specifically to Bob.)

If the same compressed posit is decoded by a program that uses the above approximation and one that faithfully follows the spec (including using sufficient precision to avoid intermediate rounding errors), the difference in position is about half a mile in the USA, and over a mile in some other parts of the world. That doesn't seem a very satisfactory situation when "Improved position to 1 foot worldwide" is claimed.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 13:42:40 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15050
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 13:42:37 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 28 Apr 2000 14:41:42 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed Posits: The spec IS wrong. Here's the fix
In-Reply-To: <LYR11586-80457-2000.04.28-12.14.15--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80478-2000.04.28-13.43.31--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyriss Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004281436520.4116-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 28 Apr 2000, Ian Wade wrote:

> (and if you decide to have a go, please let me know what you get for the
> 4 ASCII characters for 72.75 deg W). Hopefully I will get the same!

I get <*e!

Also for your entertinament, you will notice that the SIGN of the math for longitude is backwards from what you might have expected. This was done early on so that all the English Language Swear words did not plot to locations in the middle of the USA...

I dont know where they ended up, but at least they aren't in our backyard... <grin>...

I could see the joy that APRS'ers would have driving circles around the point that produced the worst possible cursewords...

I think I moved them to the middle of the oceans...

bob, WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 13:46:45 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15218
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 13:46:44 -0500 (CDT)
Message-ID: <LYR11589-80480-2000.04.28-13.47.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Compressed Posits: The spec IS wrong. Here's the fix
Date: Fri, 28 Apr 2000 13:45:27 -0500
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01BFB118.0C5E47A0.billldiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ian,

If it is not possible to rework the spec document to correct errors and ambiguities, could an error or erratta document be posted along with the APRS101g.pdg file?

Many of the document errors have been discussed on the sig, and corrections offered, but these are not readily available to those who may wish to use the document to write new, or to correct existing APRS applications.

Presently, the chapter 9 - Compressed Postion Report Data Formats, chapter 10 - Mic-E Format, and chapter 11 - Object and Item Reports seem to be causing the most confusion.

Bill KC9XG

On Friday, April 28, 2000 12:10 PM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

> As several people have commented, it turns out that the spec covering
> encoding/decoding of compressed posits is (slightly :-)) wrong.
>
> Refer to page 32 of the APRS Protocol Spec, draft version 1.0.1g, dated
> 3 December 1999 (at <http://www.tapr.org/tapr/html/Faprswg.html>).
>
> In the "Lat/Long Encoding" section, the computations should be:
>
> YYYY is $380926 * (90 - \text{latitude})$
>
> XXXX is $190463 * (180 + \text{longitude})$.
>
>
> In the "Lat/Long Decoding" section, the same big numbers are used as the
> divisors:
>
> Lat = $90 - ((\dots\dots\dots) / 380926$
>

```

> Long = -180 + ((.....) / 190463
>
>
> Using these numbers, the examples computed by Bob Bruninga and Brent
> Hildebrand in other threads on this list match correctly.
>
> The longitude encoding/decoding examples in the spec will obviously have
> to be reworked. For now, this is left as an exercise for the reader ...
> (and if you decide to have a go, please let me know what you get for the
> 4 ASCII characters for 72.75 deg W). Hopefully I will get the same!
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
>
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> +-----+
>
> ---
> You are currently subscribed to aprsspec as: billdiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

```

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 14:00:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA15740
    for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 14:00:10 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 28 Apr 2000 14:58:54 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80460-2000.04.28-12.42.13--
    bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80484-2000.04.28-14.01.02--
    lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

```

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004281451000.4116-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Gosh Roger. The spec was wrong. Thanks for bringing this up.
We are so very sorry for any inconvenience we may have caused you...

But I would not be surprised if there are not other errors in the spec also. REMEMBER, it was written after the fact to document what is in APRSdos and the other programs. Thats over 40,000 lines of code in APRSdos alone that you are trying to duplicate.

I think the current process of finding errors and omissions in the after-the-fact documentation and correcting them is about the best we can do. Obviously you think there is a better way. Maybe you would share with us how you think we can do this better...

bob

On Fri, 28 Apr 2000, Roger Barker wrote:

> So, presumably, all the APRS applications that could handle compressed
> posits at the time the spec was drawn up use your approximation? In that
> case, why does the spec not reflect that situation? I have seen it said
> enough times that the spec is supposed to be documenting the current
> situation. (That's a question to the WG in general, not specifically to
> Bob.)
>
> If the same compressed posit is decoded by a program that uses the above
> approximation and one that faithfully follows the spec (including using
> sufficient precision to avoid intermediate rounding errors), the
> difference in position is about half a mile in the USA, and over a mile
> in some other parts of the world. That doesn't seem a very satisfactory
> situation when "Improved position to 1 foot worldwide" is claimed.
>
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - <http://www.packetradio.org.uk>
> For WinPack go to - <http://www.peaksys.co.uk>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 14:31:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA17004
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 14:31:02 -0500 (CDT)
Message-ID: <LYR11589-80489-2000.04.28-14.31.53--
lyris.aprsspec@tapr.org>
Date: Fri, 28 Apr 2000 20:29:34 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] RE: Compressed Posits: The spec IS wrong. Here's the fix
References: <LYR14779-80480-2000.04.28-13.47.35--
Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-80480-2000.04.28-13.47.35--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyriss Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <9MaZ0MAeaeC5EwrX@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-80480-2000.04.28-13.47.35--Ian.Wade@care4free.net@lists.tapr.org>, Bill Diaz <billldiaz@megsinet.net> writes
>Ian,
> If it is not possible to rework the spec document to correct errors
>and ambiguities, could an error or erratta document be posted along
>with the APRS101g.pdg file?
>
>Many of the document errors have been discussed on the sig, and
>corrections offered, but these are not readily available to
>those who may wish to use the document to write new, or to
>correct existing APRS applications.

Point taken Bill. In fact, the Working Group now have in their possession the updated version of the spec, incorporating all the feedback from everyone since December.

Hopefully there are only a few minor tweaks outstanding, and they will

sign it off for public distribution "real soon now".

I know it's been a long wait, but there was a *lot* of feedback on the last draft -- the hardcopies are in a folder 2 inches thick! Not only corrections, but also some hitherto obscurely documented features which somehow didn't find their way into the December draft.

Several chapters have been much expanded/re-written (notably the Mic-E chapter) to make things a lot clearer -- the whole document has grown a further 20 pages, and is now up to page 113.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 14:41:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA17484
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 14:41:25 -0500 (CDT)
Message-ID: <LYR11589-80491-2000.04.28-14.42.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 28 Apr 2000 15:40:53 -0400
From: csuprin@mitre.org (Charles Suprin)
Organization: The MITRE Corporation
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org (APRS Spec Discussion List)
Subject: [aprsspec] Re: Compressed position reports
References: <LYR12284-80484-2000.04.28-14.01.02--csuprin#mitre.org@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3909E945.AEAF1F38@mitre.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

BTW is here a version of APRS dos and Winaprs and Mac APRS that are the versions version 1 of the standard is trying to match.

As time goes on What these applications do changes.

I just want to be confident that the spec is not trying to track a moving target.

Charles

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 28 16:46:19 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA21702
for <lyris.aprsspec@tappr.org>; Fri, 28 Apr 2000 16:46:18 -0500 (CDT)
Message-ID: <LYR11589-80509-2000.04.28-16.47.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 28 Apr 2000 22:43:31 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Compressed position reports
References: <LYR11586-80460-2000.04.28-12.42.13--
bruninga#nadm.navy.mil@lists.tappr.org>
<LYR13460-80484-2000.04.28-14.01.02--roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-80484-2000.04.28-14.01.02--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <\$dGs5pBDYgC5EwKq@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-80484-2000.04.28-14.01.02--roger#peaksys.co.uk@list

s.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes
>Gosh Roger. The spec was wrong. Thanks for bringing this up.
>We are so very sorry for any inconvenience we may have caused you...
>
>But I would not be surprised if there are not other errors in the spec
>also. REMEMBER, it was written after the fact to document what is in
>APRSDos and the other programs. Thats over 40,000 lines of code in
>APRSDos alone that you are trying to duplicate.
>
>I think the current process of finding errors and omissions in the
>after-the-fact documentation and correcting them is about the best we can
>do. Obviously you think there is a better way. Maybe you would share
>with us how you think we can do this better...

Well, in 20 years of writing software, I've never made a mistake, so I
really don't know what you people are doing... ;-))
(for the humour-challenged, note smiley!) ^^^

Sorry to have irritated you... I read your message as giving good
reasons why you had chosen to do things differently to what the spec
said, not as saying that there was an error in it. So I couldn't really
understand why the spec didn't reflect your method. That was my only
point. Obviously I misunderstood what you were saying.

[previous comments snipped]

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 28 17:17:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA22760
for <lyris.aprsspec@tapr.org>; Fri, 28 Apr 2000 17:17:18 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80513-2000.04.28-17.18.08--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 28 Apr 2000 18:15:51 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Compressed position reports
References: <LYR11601-80484-2000.04.28-14.01.02--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <390A0D97.E3967671@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

> Gosh Roger. The spec was wrong. Thanks for bringing this up.
> We are so very sorry for any inconvenience we may have caused you...
>
> Obviously you think there is a better way. ..

One thought that immediately comes to mind is to invite him to join the APRS-WG. He is the author of a popular APRS program, just seems logical to me to have him in the WG from the start.

Yes, I know he has stated in the past he would not join, but more often then not a little sincere interest goes a long way in changing peoples minds.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 28 17:42:46 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA23688
for <lyris.aprsspec@tappr.org>; Fri, 28 Apr 2000 17:42:44 -0500 (CDT)
Message-ID: <LYR11589-80521-2000.04.28-17.43.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-80308-2000.04.27-12.29.36--

bhildebrand#earthlink.net@lists.tappr.org> <LYR11585-80374-2000.04.27-22.52.49--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Compressed position reports
Date: Fri, 28 Apr 2000 15:40:20 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <021501bfb162\$bccc9a20\$dc92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id RAA23688

Well, back on Email, and I see Bob has pointed out where the problem in the spec is and I'm sure Ian will correct it. The Spec shows the "best" that Base91 can do. Bob's modification to my algorithm was to fix some math problem he had. I did not like esthetically, but it is close enough.
For testing purposes, Here are what the end points should calculate out to:

The algorithm as implemented on-air.

```
0 0 => NN!!NN!!  
S90 W180 => {{!!!!!!  
N90 E180 => !!!!{{!!
```

The algorithm as noted in the Spec (and as originally proposed and now wrong)

```
0 0 => NNNNNNNN  
S90 W180 => {{{{!!!!  
N90 E180 => !!!!{{{
```

Nice symmetry. <sigh> :)

APRS+SA decodes it as encoded by APRSdos, but does not encode it, and I have no plan to encode it at this time.

Brent

> > You don't really need the example for my location, because, if you feed the
> > example compressed posit in the spec - 5L5L<+%A which is supposed to be
> > 4930.00N, 7245.00W - into APRSTK, it decodes it as 4929.71N, 7244.23W.
> >
> > If you input 4930.00N, 7245.00W as your lat and long in APRSTK, there is a
> > similar difference when it encodes the posit. It transmits 5L!!<*e!, which,
> > when decoded according to the spec, is 4930.29N, 7245.78W.
> >
> > Roger - G4IDE
>
> 5L!!<*e! decodes to 4930.00N, 7245.00W in APRS+SA.
>
> APRS+SA decoder: 'NW' FmtLL ® LLCompress '5L5L<+%A'
> N49°29.707' W72°44.223'
> APRS+SA decoder: 'NW' FmtLL ® LLCompress '5L!!<*e!'
> N49°30.000' W72°45.007'
>
> Apparently, the spec is wrong.
>
> Brent
>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 29 09:40:47 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05588
for <lyris.aprsspec@tappr.org>; Sat, 29 Apr 2000 09:40:47 -0500 (CDT)
Message-ID: <LYR11589-80622-2000.04.29-09.41.41--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 29 Apr 2000 15:37:40 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Compressed position reports
References: <LYR11585-80308-2000.04.27-12.29.36--
bhildebrand#earthlink.net@lists.tappr.org>

<LYR11585-80374-2000.04.27-22.52.49--bhildebrand#earthlink.net@lists.tappr.org>
<LYR14779-80521-2000.04.28-17.43.36--Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-80521-2000.04.28-17.43.36--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <rdwMQGA00vC5Ew5j@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-80521-2000.04.28-17.43.36--Ian.Wade#care4free.net@list
s.tappr.org>, Brent Hildebrand <bhildebrand@earthlink.net> writes
>Well, back on Email, and I see Bob has pointed out where the problem in the spec
>is and I'm sure Ian will correct it.

That is now done, as I detailed in another thread yesterday.

>For testing purposes, Here are what the end points should calculate out to:
>
>The algorithm as implemented on-air.
>0 0 => NN!!NN!!
>S90 W180 => {{!!!!!!
>N90 E180 => !!!!{{!!
>

I confirm that using the new encode/decode constants (380926 and 190463)
these character strings are correct.

That is, the next (RSN) release of the spec will agree with existing on-air
data.

[Also, following Bob's decision to make western longitudes negative to
avoid rude words, I can confirm that the 8-character compressed posit
"rudeword" is close to the Balleny Islands in the Ross Sea, Antarctica, and
that "RUDEWORD" is at the north end of Lake Malawi in East Africa ...]

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |

|
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 13:19:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA11606
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 13:19:27 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 29 Apr 2000 14:16:09 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80509-2000.04.28-16.47.06--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80661-2000.04.29-13.18.16--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004291409030.22456-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 28 Apr 2000, Roger Barker wrote:

> Sorry to have irritated you... I read your message as giving good
> reasons why you had chosen to do things differently to what the spec
> said, not as saying that there was an error in it. So I couldn't really
> understand why the spec didn't reflect your method. That was my only
> point. Obviously I misunderstood what you were saying.

My appologies too. I was at the end of a very long day and behind on everything I was committed to. Was trying to answer all the mail.. Now things are back to their normal frenzied pace.

So please feel free to speak up when anything built by the spec doesn't

match APRSdos. Such discrepancies do need to be addressed. The point that the spec is an after the fact condensation of my 800K of readme files which themselves are a 2nd order documentation of the code is a mechanism that may miss some details.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 13:26:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA11853
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 13:26:27 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 29 Apr 2000 14:26:00 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RELAY defaults.
In-Reply-To: <LYR11586-80509-2000.04.28-16.47.06--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80664-2000.04.29-13.27.23--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004291418110.22456-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Authors,

Actually, I may be the source of this problem. If you are using my INITxxx.TNC files in your distributions, then that is why your software is not initializing TNC's MYALIAS to RELAY. Since APRSdos code itself does the MYALIAS RELAY, this means that the INITxxx.TNC files DO NOT..

Thus if you relied on them to do most of the default initializations, then

this explains why your stations are not getting configured to RELAY.
May I suggest that you insert the line

MYALIAS RELAY in all of your INITxxx.TNC files

and in the INITKAN.TNC that you include

UIDIGI ON RELAY

Thanks. This simple change will restore the fundamental RELAY structure throughout APRSdom. Notice that this issue is independent of the arguments for and against having the RELAY ALIAS at DIGIS... That is a separate subject and should not affect our defaults of RELAY at all home stations. Thanks

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 13:42:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA12268
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 13:42:42 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 29 Apr 2000 14:41:31 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Compressed position reports
In-Reply-To: <LYR11586-80521-2000.04.28-17.43.36--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80666-2000.04.29-13.43.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004291432320.22456-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Fri, 28 Apr 2000, Brent Hildebrand wrote:

> I see Bob has pointed out where the problem in the spec is and I'm sure
> Ian will correct it. The Spec shows the "best" that Base91 can do.
> Bob's modification to my algorithm was to fix some math problem he had.
> I did not like esthetically, but it is close enough.
>
> The algorithm as noted in the Spec (and as originally proposed and now wrong)

No, thats not historically correct. Brent proposed a variety of base 91 system that got hammered down to a YYYXXX system. We all implemented it for testing. But Steve made the good point that it just needed more precision. We added one more byte that included 3 bits of additional precision in Y and 4 more bits precision in X. THus we had a YYZXXX format. But then after intense arguments we arrived at the more CLEAN YYYXXXXX format that gave 1 foot everywhere and used identical parsing and processing for both X and Y.

Since YYYXXX could be done with single precision and YYYXXXXX reuired double precision integers we all agreed at the time to simply change the mathematical constant from 380972 to 380926 to allow for this vastly simpler implementation on PIC processors. THere is noting inelligent about this. In fact, it is very elegant.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 14:09:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA13014
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 14:09:56 -0500 (CDT)
Message-ID: <LYR11589-80670-2000.04.29-14.08.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 29 Apr 2000 15:06:17 -0400
From: kf4chg <kf4chg@atlantic.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] LEAVE-APRSSPEC-11602B@LISTS.TAPR.ORG

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <390B32A9.F1B61F06@atlantic.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

leave-aprsspec-11589P@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 29 19:05:56 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA21169
for <lyris.aprsspec@tappr.org>; Sat, 29 Apr 2000 19:05:56 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80706-2000.04.29-19.06.32--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 29 Apr 2000 20:05:08 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>
Subject: [aprsspec] x-no-archive "compression"
References: <LYR8644-80665-2000.04.29-13.32.27--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <390B78B4.6D4B2EA2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

> Concerning the SECURITY issue, I still think that Steve has both an
> excellent system and also has included the necessary disabling structure
> in his "x-no-archive" capability.
>
> My only request is that we shorten this substantially. With only 20 bytes
> in the D7 STATUS line, I don't like taking up 60% of them with the above
> flag.
>
> Can anyone come up with something better than the !no% that was previously
> suggested as a shorter way to say the same thing?

First of all, you need to understand you are talking two distinct issues. FINDU's protocol, and what is actually sent over the air. I see little reason to mess with FINDU, it's already doing what it's supposed to do, and anyways it's on the internet with no radio ports. The x-no-archive:yes is an accepted standard on the internet already.

In the compressed format there are two unused bits and in the MIC-E format I believe there are also unused bits. Why not just use them for the archive function?

The various RF gateway programs could then expand them in a format that FINDU accepts.

In this way you have a 0% increase in the size of your frame sent over the air.

I think routing issues need to be addressed in the next cut of the APRS protocol, this would address some of the privacy concerns being raised, but more importantly make a real routable protocol. This is having your cake and eating it too. But that's for another discussion.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 19:27:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA21648
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 19:27:10 -0500 (CDT)

Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80714-2000.04.29-19.28.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 29 Apr 2000 20:27:33 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Proper use of position ambiguity?
References: <LYR8644-80667-2000.04.29-13.50.25--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <390B7DF5.42EBBAD0@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> None of this is necessary. APRS allows for position ambiguity. The
> KENWOODS allow position ambiguity. If you want to be ambiguous, use this
> feature. I would rather see an ambiguous position which is clearly
> marked as such than seeing purposefully WRONG posits....

This suggestion concerns me. There was a heated discussion regarding the need for position ambiguity on APRSSPEC some time ago, yet I never saw this "use" of it mentioned. More to the point, for those of you who are familiar with robotic navigation, the "ambiguity" itself can express information. That is, how good are your sensors. You use this level of ambiguity to weight your decisions when doing sensor fusion and/or Kalman filtering.

Now I see someone suggesting we use it to hide our true location. This is a entirely separate issue from the FINDU discussion that prompted this suggestion. Its one thing making data readily available to anyone on the internet, its a complete other one purposely putting that data in error on purpose. The problem here is this ambiguity can no longer be modeled, its really random!

Its my opinion, based on my experience in robotic navigation, that this suggested

use
of position ambiguity is a poor idea.... its not even position ambiguity!! Better
to have
a flag to set for no archive, or better yet, work on a real routable protocol then
to yet
again kludge up the protocol.

This is not strictly a academic discussion either, the use of *accurate*
position ambiguity in DF work is important also. Sounds like a oxymoron ("accurate
ambiguity"), but I assure its not. You need to know the accuracy of your sensors
to
be able to use the data properly.

For those of you interested in robotic navigation, here is a interesting text
available
on the internet entitled: Where am I?" -- Systems and Methods for Mobile Robot
Positioning at: <http://www-personal.engin.umich.edu/~johannb/position.htm>
There is a short section at the end on Kalman filters.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 29 20:43:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA24074
for <lyris.aprsspec@tapr.org>; Sat, 29 Apr 2000 20:43:15 -0500 (CDT)
Message-ID: <LYR11589-80728-2000.04.29-20.41.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 29 Apr 2000 23:40:43 -0400
From: Donald Tambeau <ve3hol@rac.ca>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Newbie
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <390BAB3A.54B59660@rac.ca>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello ..

I am new to the list and new to APRS. I have a registered copy of Dos APRS. I have this loaded on my home computer and I can also run mobile with a dual port computer and a Garwin gps. I have captured a history map of some of the major streets of the City of Timmins and would like to give a demo of this exciting mode at our general meeting in a few weeks from now. I have used Mapfix40 and this history file to make a map. I can load the map in the window version of APRS but I cannot find a way to insert my Timmins map in the Dos Version. I do not wish to change anything in the Ontario Maps. I just want to be able to display a basic map of our area while a mobile unit circles the surrounding. We will gladly submit maps of our area to be added to the zipped database. We just want a quick fix for the upcoming meeting. Thank you.
Don VE3HOL

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 08:20:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA26593
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 08:20:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 30 Apr 2000 09:19:59 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: x-no-archive "compression"
In-Reply-To: <390B78B4.6D4B2EA2@aerodata.net>
Message-ID: <LYR11589-80785-2000.04.30-08.21.32--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10004300915430.5623-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 29 Apr 2000, Jeff King wrote:

> Bob Bruninga wrote:
> > Concerning the SECURITY issue, I still think that Steve has both an
> > excellent system and also has included the necessary disabling structure
> > in his "x-no-archive" capability.
> >
> > My only request is that we shorten this substantially.
> > Can anyone come up with something better than the !no% that was previously
> > suggested as a shorter way to say the same thing?
>
> The x-no-archive:yes is an accepted standard on the internet already.

So? They have infinite bandwidth. This is HAM radio on a 1200 baud channel. Where every byte counts. putting "x-no-archive" in every packet on the air is a tremendous hog of our precious bandwidth..

>
> In the compressed format there are two unused bits and in the MIC-E format
> I believe there are also unused bits. Why not just use them.

Because there are thousands of Mic-E's and THD7's and D700's that will never be changed to allow for this...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 09:19:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA28194
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 09:19:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 30 Apr 2000 10:16:45 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR10461-80715-2000.04.29-19.28.15--

bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-80794-2000.04.30-09.20.05--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004300943030.5623-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

There is clearly a misunderstanding of APRS position ambiguity below,
which I will try to correct:

On Sat, 29 Apr 2000, Jeff King wrote about Bob's statement that position
ambiguity built into APRS can be used to mask exact positions:

> This suggestion concerns me.... for those of you who are familiar with
> robotic navigation... That is, how good are your sensors....
> Now I see someone suggesting we use it to hide our true location.... a
> separate issue from the FINDU discussion that prompted this suggestion.
> Its my opinion, based on my experience in robotic navigation, that this
> position ambiguity is a poor idea.... its not even position ambiguity!!

"Position ambiguity" in APRS has nothing to do with the Jeff's example...
Position ambiguity in APRS means the same thing as we learn in Highschool
math. And that is that there is a difference between the following
representations of a position: (or any measurable quantity)

38 59.13 N	... is a latitude known to a precision of about 60 feet
38 59.1 N	... is a latitude known to a precision of about 0.1 mile
38 59 N	... is a latitude known to a precision of about 1 mile
38 N	... is a latitude known to a precision of about 60 miles

The DESIGN of APRS included the ability to PRESERVE these POSITION
AMBIGUITYS from the SENDER to the RECEIVER, so that there could be NO
MISSINTERPRETATION of the data on receipt.

But some authors refused to support this fundamental concept in their
implementations of APRS. Thus, some programs will convert, record and
display ALL OF THE ABOVE positions exactly the same at the location of
38 00.00 Whis is just plain wrong.

So, even if someone does not know the hundredths of a minute details of
his positions, even if he only enters it as 3859N and 7629W, those

programs will show him at exactly 3859.00N and 7629.00W with no indication that this position was ambiguous in the first place.

In APRSdos and WinAPRS and any others that support position ambiguity, these station ICONS will look just like anyone else. UNTIL you zoom in below the point where the precision no longer exists. At that point, the ICON is replaced with a CIRCLE with a radius of the ambiguity. Thus you UNMISTAKENLY can see that the station is somewhere within that circle and you are NOT MISLED that he is exactly where his ICOM may fall..

In my opinion, we MUST preserve END-TO-END meaning of positions and that includes the display on RECEIPT of the lack of precision that was INCLUDED by the SENDER. To do otherwise UNDERMINES the integrity of APRS.

de WB4APR, Bob

Now, then, that is why you can use position ambiguity to show what neighborhood you live in, but to remain completely ambiguous as to which house you live in.

Or in the case of the THD7 HT, it allows you to enter a manual position showing that you are visiting in Atlanta, without having to have the GPS plugged in. APRSdos will display any THD7 posit ending in .00/.00 with an ambiguity circle of 1 mile. Thus someone seeing your THD7 at the Atlanta Airport for example, does not waste precious time driving to exactly XXXX.00/XXXX.00 and getting frustrated because he cannot find you there...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 10:20:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29472
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 10:19:58 -0500 (CDT)
Message-ID: <LYR11589-80800-2000.04.30-10.18.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80794-2000.04.30-09.20.05--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Sun, 30 Apr 2000 08:16:43 -0700

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <011b01bfb2b7\$188e4700\$e493b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA29472

> Or in the case of the THD7 HT, it allows you to enter a manual position
> showign that you are visiting in Atlanta, without having to have the GPS
> plugged in. APRSdos will display any THD7 posit ending in .00/.00 wtih an
> ambiguity circle of 1 mile. Thus someone seeing your THD7 at the Atlanta
> AIrport for example, does not waste precious time driving to exactly
> XXXX.00/XXXXX.00 and getting frustrated because he cannot find you
> there...

Does the D700 work differently than the D7? On the D700, Position ambiguity only affect Latitude.

1 digit: XXXX.X0/XXXXX.XX
2 digit: XXXX.00/XXXXX.XX
3 digit: XXX0.00/XXXXX.XX
4 digit: XX00.00/XXXXX.XX

Just demonstrated this again right now. I believe I've pointed this out before.

The ambiguity with 1 digit, is just about ziltch. And someone who thinks they are being ambiguous with 1 digit, is fooling themselves. At least with 2 digits, you will have a minute of ambiguity. On the D700, this is only in Latitude; you KNOW the Longitude. Call it a bug if you wish, but there are a lot of D700 out there now. Do we tell them, hey, you are not as ambiguous as you think!

How about on your D700? Does it work right?

How about in APRSdos? Do you display the ambiguity correctly?? It should only be a line, not a circle.

At least with "regular" APRS packets, the ambiguity is well defined, with spaces in the Lat/Long. The ambiguity in other Mic-E and compressed is more ambiguous.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 10:22:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29558
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 10:22:05 -0500 (CDT)
Message-ID: <LYR11589-80802-2000.04.30-10.23.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>
References: <LYR13439-80785-2000.04.30-08.21.32--ssampson#usa-
site.net@lists.tapr.org>
Subject: [aprsspec] Re: x-no-archive "compression"
Date: Sun, 30 Apr 2000 10:19:30 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001701bfb2b7\$7b4d8360\$83228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I think this is one that has to be worked out with the author.
Mr. Dimse can probably do anything you want, or he may
take the same position as Kenwood and the others and not
want to modify anything. In any case, there's nothing the
user community can do except use what is programmed in.

Work it out and let us know what all the authors decide.

----- Original Message -----

> > The x-no-archive:yes is an accepted standard on the internet already.
>
> So? They have infinite bandwidth. This is HAM radio on a 1200 baud
> channel. Where every byte counts. putting "x-no-archive" in every packet
> on the air is a tremendous hog of our precious bandwidth..
> >
> > In the compressed format there are two unused bits and in the MIC-E format
> > I believe there are also unused bits. Why not just use them.
>
> Because there are thousands of Mic-E's and THD7's and D700's that will
> never be changed to allow for this...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 13:35:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05317
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 13:35:07 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80844-2000.04.30-13.35.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 30 Apr 2000 14:33:05 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <Pine.GS0.4.05L.10004300943030.5623-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <390C7C61.6197B6F4@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> There is clearly a misunderstanding of APRS position ambiguity below,
> which I will try to correct:

Yes, there is.

> "Position ambiguity" in APRS has nothing to do with the Jeff's example...

Of course it does, if it has the same thing to do with what we learned in high school chemistry class.

> Position ambiguity in APRS means the same thing as we learn in Highschool
> math.

I think you meant high school chemistry or physics. But it all boiled down to math anyways.

Your 100% correct. Which was my point. The "high school" example had to do with the accuracy of your sensors, in this case a weight balance, pipette, thermometer or whatever. If you were using a number of measurements together, then the known precision of measurement, or ambiguity would be cumulative and would be used in your calculations. While you knew you never got a "exact" measurement, you knew a range that the measurement was in. And it could be accurately modeled. This would be analogous to a range circle in APRS derived from S/A or from the GPS DOP.

Now, the analogy of the way you are suggesting using ambiguity is if your high school chemistry teacher walked around class putting his thumb on the scale while you were taking measurements. Yes, you know the measurement is wrong, but just how wrong we no longer know. The measurements now are useless as the level of ambiguity is no longer repeatable as it was before. Further, the factor introducing the ambiguity is no longer trying to get it as close as possible, but is trying to deceive. This is the fundamental difference you do not understand and two completely different uses of the "_" field.

What your trying to do with "position ambiguity" could be better described as position munging and has nothing to do with the precision of measurement.

Which is fine, just call it what it is. This is more a debate of semantics

anyways.

-Jeff

P.S. Here are some postings made on the APRSSPEC list about 4 months ago. Never a mention from you of position concealing and everyone seemed to understand the high school math/chemistry example then.

<http://www.tapr.org/tapr/list-archive/aprsspec/9912/msg00147.html>

<http://www.tapr.org/tapr/list-archive/aprsspec/9912/msg00129.html>

<http://www.tapr.org/tapr/list-archive/aprsspec/9912/msg00140.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 15:01:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA08164
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 15:01:09 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 30 Apr 2000 16:00:43 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <011b01bfb2b7\$188e4700\$e493b3d1@celeron>
Message-ID: <LYR11589-80859-2000.04.30-15.02.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10004301551400.10955-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 30 Apr 2000, Brent Hildebrand wrote:

> Does the D700 work differently than the D7?

> On the D700, Position ambiguity only affect Latitude.
> 1 digit: XXXX.X0/XXXXX.XX
> 2 digit: XXXX.00/XXXXX.XX
> 3 digit: XXX0.00/XXXXX.XX
> 4 digit: XX00.00/XXXXX.XX

In order to encode position ambiguity in the Mic-E format there were available bits in the code space of the LATITUDE bits. Thus, we encoded the 4 levels of ambiguity in the LATITUDE. But again these are BITS that are DEFINED to be AMBIGUITY. They are ambiguity CIRCLES by definition.

The above decodings are incorrect in that they are inserting "0's" in the decoding, again, inserting precision where precision was not intended. The proper decoding of a Mic-E packet with ambiguity should insert spaces in those digit positions.

> How about in APRSdos? Do you display the ambiguity correctly??

Yes, AMBIGUITY is defined at 4 levels of 0.1, 1, 10 and 60 miles. These are circles of ambiguity in both Latitude and Longitude. This is by definition. But it is only necessary to encode this in the LATITUDE information to have it apply. Receiving software should handle it appropriately...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 15:54:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA10000
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 15:54:22 -0500 (CDT)
Message-ID: <LYR11589-80867-2000.04.30-15.55.12--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80859-2000.04.30-15.02.11--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Sun, 30 Apr 2000 13:53:35 -0700
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <017a01bfb2e6\$27ee15c0\$e493b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA10000

Bob - you did not even address the issue. The D700 does it wrong. APRSdos thus displays it wrong.

> On Sun, 30 Apr 2000, Brent Hildebrand wrote:
>
> > Does the D700 work differently than the D7?
> > On the D700, Position ambiguity only affect Latitude.
> > 1 digit: XXXX.X0/XXXXX.XX
> > 2 digit: XXXX.00/XXXXX.XX
> > 3 digit: XXX0.00/XXXXX.XX
> > 4 digit: XX00.00/XXXXX.XX
>
> In order to encode position ambiguity in the Mic-E format there were
> available bits in the code space of the LATITUDE bits. Thus, we encoded
> the 4 levels of ambiguity in the LATITUDE. But again these are BITS that
> are DEFINED to be AMBIGUITY. They are ambiguity CIRCLES by definition.
>
> The above decodings are incorrect in that they are inserting "0's" in the
> decoding, again, inserting precision where precision was not intended.
> The proper decoding of a Mic-E packet with ambiguity should insert
> spaces in those digit positions.
>
> > How about in APRSdos? Do you display the ambiguity correctly??
>
> Yes, AMBIGUITY is defined at 4 levels of 0.1, 1, 10 and 60 miles. These
> are circles of ambiguity in both Latitude and Longitude. This is by
> definition. But it is only necessary to encode this in the LATITUDE
> information to have it apply. Receiving software should handle it
> appropriately...
>
> de WB4APR, Bob

>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 30 18:53:48 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA14926
for <lyris.aprsspec@tappr.org>; Sun, 30 Apr 2000 18:53:44 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 30 Apr 2000 19:50:36 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <017a01bfb2e6\$27ee15c0\$e493b3d1@celeron>
Message-ID: <LYR11589-80883-2000.04.30-18.52.11--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10004301944060.28120-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 30 Apr 2000, Brent Hildebrand wrote:

> Bob - you did not even address the issue. The D700 does it wrong.
> APRSdos thus displays it wrong.

No, the D700 does it right and my APRSdos displays it
correctly as an ambiguous circle of radius 1 mile when I select
POS AMBIGUITY of 2 digits on the D700.

Your example below makes no sense since it includes many "00"'s. If position ambiguity is enabled on the D&00 (WHich transmits in Mic-E format), then there are no "00's" in the positions you imply.

```
> > On Sun, 30 Apr 2000, Brent Hildebrand wrote:
> >
> > > Does the D700 work differently than the D7?
> > > On the D700, Position ambiguity only affect Latitude.
> > > 1 digit:  XXXX.X0/XXXXX.XX
> > > 2 digit:  XXXX.00/XXXXX.XX
> > > 3 digit:  XXX0.00/XXXXX.XX
> > > 4 digit: XX00.00/XXXXX.XX
> >
> > In order to encode position ambiguity in the Mic-E format there were
> > available bits in the code space of the LATITUDE bits.  Thus, we encoded
> > the 4 levels of ambiguity in the LATITUDE.  But again these are BITS that
> > are DEFINED to be AMBIGUITY.  They are ambiguity CIRCLES by definition.
> >
> > The above decodings are incorrect in that they are inserting "0's" in the
> > decoding, again, inserting precision where precision was not intended.
> > The proper doecoding of a Mic-E packet with ambiguity should insert
> > spaces in thos digit positions.
> >
> > > How about in APRSdos?  Do you display the ambiguity correctly??
> >
> > Yes, AMBIGUITY is defined at 4 levels of 0.1, 1. 10 and 60 miles.  These
> > are circles of ambiguity in both Latitude and Longitude.  This is by
> > definition.  But it is only necessary to encode this in the LATITUDE
> > information to have it apply.  Receiving software should handle it
> > appropriately...
> >
> > de WB4APR, Bob
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> >
> >
>
>
```

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060

See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 19:05:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA15413
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 19:05:29 -0500 (CDT)
Message-ID: <LYR11589-80886-2000.04.30-19.06.18--
lyris.aprsspec@tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80883-2000.04.30-18.52.11--
bhildebrand@earthlink.net>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Sun, 30 Apr 2000 17:01:55 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <002501bfb300\$d77675e0\$1995b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA15413

OK OK PUT _ in for zeros. The D700 send the REAL Longitude. Even with 4 digit "ambiguity". Decode it yourself. People need to know that only the Latitude is it rounded off only, not the Longitude, and I still say, APRSdos is NOT telling the truth. Decode the data yourself.

End of thread.

> On Sun, 30 Apr 2000, Brent Hildebrand wrote:
>
> > Bob - you did not even address the issue. The D700 does it wrong.
> > APRSdos thus displays it wrong.
>
> No, the D700 does it right and my APRSdos displays it
> correctly as an ambiguous circle of radius 1 mile when I select
> POS AMBIGUITY of 2 digits on the D700.
>
> Your example below makes no sense since it includes many "00"'s. If
> position ambiguity is enabled on the D&00 (WHich transmits in Mic-E
> format), then there are no "00's" in the positions you imply.
>
> > > On Sun, 30 Apr 2000, Brent Hildebrand wrote:
> > >
> > > > Does the D700 work differently than the D7?
> > > > On the D700, Position ambiguity only affect Latitude.
> > > > 1 digit: XXXX.X0/XXXXXX.XX
> > > > 2 digit: XXXX.00/XXXXXX.XX
> > > > 3 digit: XXX0.00/XXXXXX.XX
> > > > 4 digit: XX00.00/XXXXXX.XX
> > >
> > > In order to encode position ambiguity in the Mic-E format there were
> > > available bits in the code space of the LATITUDE bits. Thus, we encoded
> > > the 4 levels of ambiguity in the LATITUDE. But again these are BITS that
> > > are DEFINED to be AMBIGUITY. They are ambiguity CIRCLES by definition.
> > >
> > > The above decodings are incorrect in that they are inserting "0's" in the
> > > decoding, again, inserting precision where precision was not intended.
> > > The proper decoding of a Mic-E packet with ambiguity should insert
> > > spaces in thos digit positions.
> > >
> > > > How about in APRSdos? Do you display the ambiguity correctly??
> > >
> > > Yes, AMBIGUITY is defined at 4 levels of 0.1, 1. 10 and 60 miles. These
> > > are circles of ambiguity in both Latitude and Longitude. This is by
> > > definition. But it is only necessary to encode this in the LATITUDE
> > > information to have it apply. Receiving software should handle it
> > > appropriately...
> > >
> > > de WB4APR, Bob
> > >
> > >
> > >
> > > ---
> > > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net

> > > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> > >
> > >
> >
> >
>
> APRSdos REPLY/COMMENT:
>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
> See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
> See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 19:33:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA16054
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 19:33:29 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 30 Apr 2000 20:30:52 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <002501bfb300\$d77675e0\$1995b3d1@celeron>
Message-ID: <LYR11589-80901-2000.04.30-19.32.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GS0.4.05L.10004302020150.28120-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 30 Apr 2000, Brent Hildebrand wrote:

> OK OK PUT _ in for zeros. The D700 send the REAL Longitude. Even with
> 4 digit "ambiguity". Decode it yourself. People need to know that
> only the Latitude is it rounded off only, not the Longitude, and I still
> say, APRSdos is NOT telling the truth. Decode the data yourself.

Sorry brent, I did address your issue. I agreed with you that the BITS for indicating the 4 LEVELS of ambiguity are encoded ONLY in the LATITUDE bits. I further expalined that POSITION AMBIGUITY is "*defined*" to be a "circle" of ambiguity, even though the BITS used to encode it are only passed in the MIC-E format via the LATITUDE bytes.

APRSdos displays this as an ambiguity circle no matter what the least significant bits of Longityude imply. I hope this helps. OH... I see, yes the LSB of longitude does come through on the positions LIST. I should fix that. It should be masked to the same degree as the latitude. Thanks..

Bob

The receiving software is supposed to apply > > > On Sun, 30 Apr 2000, Brent Hildebrand wrote: > >

> > > Bob - you did not even address the issue. The D700 does it wrong.
> > > APRSdos thus displays it wrong.

> >

> > No, the D700 does it right and my APRSdos displays it
> > correctly as an ambiguous circle of radius 1 mile when I select
> > POS AMBIGUITY of 2 digits on the D700.

> >

> > Your example below makes no sense since it includes many "00"'s. If
> > position ambiguity is enabled on the D&00 (WHich transmits in Mic-E
> > format), then there are no "00's" in the positions you imply.

> >

> > > On Sun, 30 Apr 2000, Brent Hildebrand wrote:

> > > >

> > > > Does the D700 work differently than the D7?

> > > > On the D700, Position ambiguity only affect Latitude.

> > > > 1 digit: XXXX.X0/XXXXX.XX

> > > > 2 digit: XXXX.00/XXXXX.XX

> > > > 3 digit: XXX0.00/XXXXX.XX

> > > > 4 digit: XX00.00/XXXXX.XX

> > > >

> > > > In order to encode position ambiguity in the Mic-E format there were

```

> > > > available bits in the code space of the LATITUDE bits.  Thus, we encoded
> > > > the 4 levels of ambiguity in the LATITUDE.  But again these are BITS that
> > > > are DEFINED to be AMBIGUITY.  They are ambiguity CIRCLES by definition.
> > > >
> > > > The above decodings are incorrect in that they are inserting "0's" in the
> > > > decoding, again, inserting precision where precision was not intended.
> > > > The proper decoding of a Mic-E packet with ambiguity should insert
> > > > spaces in those digit positions.
> > > >
> > > > > How about in APRSdos?  Do you display the ambiguity correctly??
> > > >
> > > > Yes, AMBIGUITY is defined at 4 levels of 0.1, 1, 10 and 60 miles.  These
> > > > are circles of ambiguity in both Latitude and Longitude.  This is by
> > > > definition.  But it is only necessary to encode this in the LATITUDE
> > > > information to have it apply.  Receiving software should handle it
> > > > appropriately...
> > > >
> > > > de WB4APR, Bob
> > > >
> > > >
> > > >
> > > > ---
> > > > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> > > > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> > > >
> > > >
> > >
> > >
> >
> > APRSdos REPLY/COMMENT:
> >
> > Reply mail addr:  wb4apr@amsat.org
> > US mail address:  115 old Farm Ct, Glen Burnie, MD 21060
> > See DAYTON97 HISTORY:  http://web.usna.navy.mil/~bruninga/dayton.html
> > See Maryland APRS LIVE:  http://web.usna.navy.mil/~bruninga/aprs.html
> > See GPS on ANY radio:  http://www.tapr.org/tapr/html/mic-e.html
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> >
> >
>
>

```

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 19:59:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA16641
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 19:59:23 -0500 (CDT)
Message-ID: <LYR11589-80907-2000.04.30-20.00.25--
lyris.aprsspec@tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80901-2000.04.30-19.32.32--
bhildebrand@earthlink.net>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Sun, 30 Apr 2000 17:58:42 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <003f01bfb308\$6606dfa0\$1995b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA16641

It is more then comes through the position list. IT IS TRANSMITTED. IF you are going to transmit ambiguous positions, DO NOT TRANSMIT THE REAL POSITION. I still hold that the D700 has a bug, in that it transmits the REAL LONGITUDE. It should have been rounded. It is not. Thus, the D700 does NOT have a circle of ambiguity, it has a LINE of ambiguity. And to say otherwise, is misleading to the users.

> On Sun, 30 Apr 2000, Brent Hildebrand wrote:
>
> > OK OK PUT _ in for zeros. The D700 send the REAL Longitude. Even with
> > 4 digit "ambiguity". Decode it yourself. People need to know that
> > only the Latitude is it rounded off only, not the Longitude, and I still
> > say, APRSdos is NOT telling the truth. Decode the data yourself.
>
> Sorry brent, I did address your issue. I agreed with you that the BITS
> for indicating the 4 LEVELS of ambiguity are encoded ONLY in the LATITUDE
> bits. I further expalined that POSITION AMBIGUITY is "*defined*" to be a
> "circle" of ambiguity, even though the BITS used to encode it are only
> passed in the MIC-E format via the LATITUDE bytes.
>
> APRSdos displays this as an ambiguity circle no matter what the least
> significant bits of Longityude imply. I hope this helps. OH... I see,
> yes the LSB of longitude does come through on the positions LIST. I
> should fix that. It should be masked to the same degree as the latitude.
> Thanks..
>
> Bob
>
> The receiving software is supposed to apply > > > On Sun, 30 Apr 2000,
> Brent Hildebrand wrote: > >
> > > > Bob - you did not even address the issue. The D700 does it wrong.
> > > > APRSdos thus displays it wrong.
> > >
> > > No, the D700 does it right and my APRSdos displays it
> > > correctly as an ambiguous circle of radius 1 mile when I select
> > > POS AMBIGUITY of 2 digits on the D700.
> > >
> > > Your example below makes no sense since it includes many "00"'s. If
> > > position ambiguity is enabled on the D&00 (WHich transmits in Mic-E
> > > format), then there are no "00's" in the positions you imply.
> > >
> > > > On Sun, 30 Apr 2000, Brent Hildebrand wrote:
> > > > >
> > > > > Does the D700 work differently than the D7?
> > > > > On the D700, Position ambiguity only affect Latitude.
> > > > > 1 digit: XXXX.X0/XXXXXX.XX
> > > > > 2 digit: XXXX.00/XXXXXX.XX
> > > > > 3 digit: XXX0.00/XXXXXX.XX
> > > > > 4 digit: XX00.00/XXXXXX.XX
> > > > >
> > > > > In order to encode position ambiguity in the Mic-E format there were
> > > > > available bits in the code space of the LATITUDE bits. Thus, we encoded
> > > > > the 4 levels of ambiguity in the LATITUDE. But again these are BITS

that

> > > > are DEFINED to be AMBIGUITY. They are ambiguity CIRCLES by definition.

> > > >

> > > > The above decodings are incorrect in that they are inserting "0's" in the

> > > > decoding, again, inserting precision where precision was not intended.

> > > > The proper decoding of a Mic-E packet with ambiguity should insert

> > > > spaces in those digit positions.

> > > >

> > > > > How about in APRSdos? Do you display the ambiguity correctly??

> > > >

> > > > Yes, AMBIGUITY is defined at 4 levels of 0.1, 1, 10 and 60 miles. These

> > > > are circles of ambiguity in both Latitude and Longitude. This is by

> > > > definition. But it is only necessary to encode this in the LATITUDE

> > > > information to have it apply. Receiving software should handle it

> > > > appropriately...

> > > >

> > > > de WB4APR, Bob

> > > >

> > > >

> > > >

> > > > ---

> > > > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net

> > > > To unsubscribe send a blank email to leave-

aprrspec-11589P@lists.taprr.org

> > > >

> > > >

> > >

> > >

> > >

> > > APRSdos REPLY/COMMENT:

> > >

> > > Reply mail addr: wb4apr@amsat.org

> > > US mail address: 115 old Farm Ct, Glen Burnie, MD 21060

> > > See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>

> > > See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>

> > > See GPS on ANY radio: <http://www.taprr.org/taprr/html/mic-e.html>

> > >

> > >

> > > ---

> > > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net

> > > To unsubscribe send a blank email to leave-aprrspec-11589P@lists.taprr.org

> > >

> > >

> >

> >

>

> APRSdos REPLY/COMMENT:

>
> Reply mail addr: wb4apr@amsat.org
> US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
> See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
> See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
> See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 20:02:52 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA16692
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 20:02:51 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80908-2000.04.30-20.03.40--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 30 Apr 2000 21:03:31 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Findu and security?
References: <LYR8644-80885-2000.04.30-19.01.17--jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <390CD7E2.5453A514@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

```
> On Mon, 1 May 2000, Hamish Moffatt wrote:
> >
> > OK. But this doesn't change my comment. If my real position is
> > 3859.00N, transmitted as 3859. N, when my position changes to 3858.99N,
> > it will be transmitted as 3858. N. So at that point in time, my
> > exact latitude is effectively known (because of the jump), despite
> > the ambiguity.
>
> Depends on your software. I would think that such software would round
> numbers instead of truncate them... But that is an implementation issue
> for the author...
```

ONLY if its a display issue. IF the position is going to be passed on, you have to have a consistent, known method of dealing with the data. I've tried making this point before in the past, and its really a certification issue if the data is being munged and passed on. It has to be munged in the exact same manner by every program in the path.

This may not have been what you were referring to, but we do need to make it clear the authors only have latitude to do things as they please with end user applications.
Any transport mechanisms must have a consistent method of handling data.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 30 20:24:40 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA17375
for <lyris.aprsspec@tapr.org>; Sun, 30 Apr 2000 20:24:39 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-80911-2000.04.30-20.24.40--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 30 Apr 2000 21:24:26 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en

increase
in bandwidth. In the solution you want to stay with, your looking at adding 56
bits to
the compressed format, a _54%_ increase in its size!

Oh, you say backwards compatibility? Again, you asked a question, and a suggestion
was offered. Just because a old piece of equipment won't support something new, is
no
reason not to make things better. Progress does not imply the old can't work, nor
that
we should not improve what we have. The old can still use the "x-no-ar" format
until
if and when they update.

So, here is what I am suggesting again. In the compressed format, we use the two
unused bits in "COMPRESS TYPE" (T) field. As an example, bit 7 could be set
to indicated "no-archive-x" which would indicate the users desire not to have
their data archived, and bit 6 set could indicate the users desire not to have
their
packets passed to the internet (APRSERVE).

In this way, instead of a 56% increase in the frame size, we get a 0% increase in
frame size.

Now, on to the Kenwood factor. Has it not come to anyones attention that we had
a major radio manufacture release a APRS device without the SPEC even being
finalized? As such, I really *DON'T* see why we are so willing to bend over
backwards
for them. Worst case, they do a firmware upgrade, something us owners of TNC2's
have been doing for years. And with the Kenwood, you don't even have to know how
to pull the chip out of the socket..... its on flash.

And as to the owners of the MIC-E, since that is your company Bob, what would be
required there? Why can it never be changed?

Also, since this question was posted to the APRS-WG, and deals with Kenwood, I
think
something needs to be said. Kenwood has given radios to a number of APRS
authors... no
one has hidden this fact from anyone and this really is a good thing as it both
benefits the author
and gets Kenwoods equipment integrated in display apps. The authors most certainly
deserve it.

But, as some of these same authors site on the APRS-WG and can make decisions
that could benefit or hurt Kenwood (like having to upgrade the firmware), its
really important
these decisions be based on technical merits. I'm not alone in feeling this way,

and would hope
anyone on the WG that has a financial arrangement with Kenwood, be it money or
equipment
donations, might consider reclusing themselves from any votes on the WG that would
affect
Kenwood. I'm *not* saying anyone is doing anything improper, but sometimes
appearances
are important in a standards body. So before anyone blows up at me, please
consider this.

73

Jeff

>
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 00:22:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA02517
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 00:22:42 -0500 (CDT)
Message-ID: <LYR11589-80953-2000.05.01-00.23.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 1 May 2000 06:20:33 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <017a01bfb2e6\$27ee15c0\$e493b3d1@celeron>
<LYR14779-80883-2000.04.30-18.52.11--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-80883-2000.04.30-18.52.11--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <2zkrbLAhQRD5EwQq@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-80883-2000.04.30-18.52.11--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadm.navy.mil> writes
>On Sun, 30 Apr 2000, Brent Hildebrand wrote:
>
>> Bob - you did not even address the issue. The D700 does it wrong.
>> APRSdos thus displays it wrong.
>
>No, the D700 does it right and my APRSdos displays it
>correctly as an ambiguous circle of radius 1 mile when I select
>POS AMBIGUITY of 2 digits on the D700.
>

In other words:

1. It is only necessary to specify the ambiguity in the latitude.
2. Any display/reporting program should assume that the same level of ambiguity applies to the longitude as well.
3. Because of #2 above, it doesn't matter whether the longitude is transmitted with or without ambiguity.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                           |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 07:47:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA20978
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 07:47:25 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 1 May 2000 08:41:47 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11586-80953-2000.05.01-00.23.33--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80995-2000.05.01-07.45.53--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005010834390.29001-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 1 May 2000, Ian Wade wrote:

> In other words:

>

> 1. It is only necessary to specify the ambiguity in the latitude.

>
> 2. Any display/reporting program should assume that the same level of
> ambiguity applies to the longitude as well.
>
> 3. Because of #2 above, it doesn't matter whether the longitude is
> transmitted with or without ambiguity.

Yes. In the past the focus on "ambiguity" was to make sure that all authors "displayed" the ambiguity to the end user so that there could be no misunderstanding in interpretation of a position. We were making no attempt to hide any extraneous precision, because the ambiguity flags were saying the position was ambiguous so it didn't matter.

What Brent has pointed out, in light of the interest in "security", is that APRSdos is capturing the actual data too, so the use of "ambiguity" as a "security" feature is not perfect. I will fix this. All I simply have to do is mask out the digits in the LONGITUDE to match the number of digits of ambiguity in the LATITUDE. But this is done on "receipt" so everyone else will probably have to take a look at how they do it too on receipt.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 08:25:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22028
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 08:25:31 -0500 (CDT)
Message-ID: <LYR11589-81002-2000.05.01-08.25.46--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References:
<017a01bfb2e6\$27ee15c0\$e493b3d1@celeron><LYR14779-80883-2000.04.30-18.52.11--
Ian.Wade@care4free.net@lists.tapr.org> <LYR11585-80953-2000.05.01-00.23.33--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Mon, 1 May 2000 06:21:11 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3

X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <011901bfb370\$1f69ce00\$1995b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA22028

----- Original Message -----

From: Ian Wade <Ian.Wade@care4free.net>
To: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Sent: Sunday, April 30, 2000 10:20 PM
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?

> In article <LYR14779-80883-2000.04.30-18.52.11--Ian.Wade#care4free.net@l
> ists.tappr.org>, Bob Bruninga <bruninga@nadm.navy.mil> writes
> >On Sun, 30 Apr 2000, Brent Hildebrand wrote:
> >
> >> Bob - you did not even address the issue. The D700 does it wrong.
> >> APRSdos thus displays it wrong.
> >
> >No, the D700 does it right and my APRSdos displays it
> >correctly as an ambiguous circle of radius 1 mile when I select
> >POS AMBIGUITY of 2 digits on the D700.
> >
> >
> In other words:
> >
> 1. It is only necessary to specify the ambiguity in the latitude.
> >
> 2. Any display/reporting program should assume that the same level of
> ambiguity applies to the longitude as well.
> >
> 3. Because of #2 above, it doesn't matter whether the longitude is
> transmitted with or without ambiguity.
> >
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> >

But this is misleading to the user who thinks they are sending an truly ambiguous position. The D700 is NOT. It transmits the real Longitude. The bits in the Mic-E may have been in the Latitude, but the Longitude could have been rounded before transmission just like the Latitude is rounded. Then the same number of significant digits would have been transmitted for both. But it is not. If this is added tot he Spec, then the whole concept of Ambiguity becomes a farce. If any program represents a station as transmitting an ambiguous position when in fact, part of the position is well known, then this is a misrepresentation of the facts.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 08:25:45 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22043
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 08:25:41 -0500 (CDT)
Message-ID: <LYR11589-81003-2000.05.01-08.26.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80995-2000.05.01-07.45.53--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Mon, 1 May 2000 06:24:16 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <011f01bfb370\$98f89440\$1995b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA22043

> Yes. In the past the focus on "ambiguity" was to make sure that all

> authors "displayed" the ambiguity to the end user so that there could be
> no misunderstanding in interpretation of a position. We were making no
> attempt to hide any extraneous precision, because the ambiguity flags were
> saying the position was ambiguous so it didn't matter.
>
> What Brent has pointed out, in light of the interest in "security", is
> that APRSdos is capturing the actual data too, so the use of "ambiguity"
> as a "security" feature is not perfect. I will fix this. All I simply
> have to do is mask out the digits in the LONGITUDE to match the number of
> digits of ambiguity in the LATITUDE. But this is done on "receipt" so
> everyone else will probably have to take a look at how they do it too on
> receipt.
>
> bob

I see, we can call ambiguity - DECEPTION ON RECEPTION.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 09:00:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA22864
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 09:00:37 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 1 May 2000 09:57:40 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11586-81002-2000.05.01-08.25.46--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81009-2000.05.01-08.59.08--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005010945140.29001-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 1 May 2000, Brent Hildebrand wrote:

> > >No, the D700 does it right and my APRSdos displays it
> > >correctly as an ambiguous circle of radius 1 mile when I select
> > >POS AMBIGUITY of 2 digits on the D700.
> >
> But this is misleading to the user who thinks they are sending an truly
> ambiguous position. The D700 is NOT. It transmits the real Longitude.
> The bits in the Mic-E may have been in the Latitude, but the Longitude
> could have been rounded before transmission just like the Latitude is
> rounded. Then the same number of significant digits would have been
> transmitted for both. But it is not. If this is added tot he Spec,
> then the whole concept of Ambiguity becomes a farce. If any program
> represents a station as transmitting an ambiguous position when in
> fact, part of the position is well known, then this is a
> misrepresentation of the facts.

Brent, you are still confusing the issues of POSITION AMBIGUITY with
"SECURITY". Position AMBIGUITY has NOTHING TO DO WITH SECURITY.

Yes, I have confused the issue by bringing up "ambiguity" as a means for
users to provide some measure of ambiguity in their position if they did
not want it desiminated worldwide by FINDU. But your point is well taken
that we should not INFER security with AMBIGUITY.

THE SPEC as written, THE Mic-E protocol, and the Kenwood D700 are all
consistent and work as designed with position ambiguity. Leave it alone.
If there is any reference to "security" in the SPEC, the KENWOOD docs or
the Mic-E docs, then Brent is correct that it is not and should be
corrected.

But your statement that position ambiguity is a "farce" is unfounded.

SECURITY in APRS, I agree, can be considered a "farce" and I hope we do
not imply it anywhere... Thanks for noting this...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 09:01:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA22916
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 09:01:26 -0500 (CDT)
Date: Mon, 1 May 2000 09:00:25 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-81011-2000.05.01-09.02.09--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11595-80953-2000.05.01-00.23.33--
salo#networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200005011400.JAA38371@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Mon, 1 May 2000 06:20:33 +0100
> From: Ian Wade <Ian.Wade@care4free.net>
> Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
>
> >On Sun, 30 Apr 2000, Brent Hildebrand wrote:
> >
> >> Bob - you did not even address the issue. The D700 does it wrong.
> >> APRSdos thus displays it wrong.
> >
> >No, the D700 does it right and my APRSdos displays it
> >correctly as an ambiguous circle of radius 1 mile when I select
> >POS AMBIGUITY of 2 digits on the D700.
>
> In other words:
>
> 1. It is only necessary to specify the ambiguity in the latitude.
>
> 2. Any display/reporting program should assume that the same level of
> ambiguity applies to the longitude as well.
>
> 3. Because of #2 above, it doesn't matter whether the longitude is
> transmitted with or without ambiguity.

And, if you send me your login password, I promise that my client
software won't look at it...

How likely are we to see APRS display programs that provide good

guesses of the location of a station with this feature enabled (based on knowing the longitude and the history of the changes in the latitude)?

I suggest that it makes more sense to admit the limitations of this scheme, rather than to make overly broad claims about the security it provides.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 09:11:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA23356
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 09:11:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 1 May 2000 10:10:00 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11586-81011-2000.05.01-09.02.09--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81017-2000.05.01-09.12.11--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005011006020.29001-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 1 May 2000, Tim Salo wrote:

> I suggest that it makes more sense to admit the limitations of this
> scheme, rather than to make overly broad claims about the security it
> provides.

True, position ambiguity was not designed as a security measure. My

apologies if I have confused anyone...

de WB4APR,Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 11:09:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27441
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 11:09:52 -0500 (CDT)
Message-ID: <LYR11589-81047-2000.05.01-11.10.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 1 May 2000 17:08:48 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <LYR11595-80953-2000.05.01-00.23.33--
salo#networkcs.com@lists.tapr.org>
<LYR14779-81011-2000.05.01-09.02.09--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-81011-2000.05.01-09.02.09--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Xo4TdMAQwaD5Ewll@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-81011-2000.05.01-09.02.09--Ian.Wade#care4free.net@lists.tapr.org>, Tim Salo <salo@networkcs.com> writes

>

>I suggest that it makes more sense to admit the limitations of this
>scheme, rather than to make overly broad claims about the security it
>provides.

Tim, I didn't say anything about security. Neither does the spec say anything about security.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 11:39:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA28418
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 11:39:33 -0500 (CDT)
Message-ID: <LYR11589-81055-2000.05.01-11.40.36--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Mon, 1 May 2000 09:40:50 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <038b01bfb38c\$2b2fa7c0\$f193b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The Spec:

Position Ambiguity Where the exact position is not known, the mm and hh
digits in the latitude
and longitude may be progressively replaced by a V (space) character as the

amount of imprecision increases. For example:
07201.7_W represents longitude to nearest 1/10th of a minute.
07201.___W represents longitude to nearest minute.
0720.___W represents longitude to nearest 10 minutes.
072___.___W represents longitude to nearest degree.

The D700 case: Position is known when you have GPS input. Does Position ambiguity have meaning? How would you interpret Position Ambiguity when you have Live GPS input, particularly now that SA will be discontinued tonight? It is an inconsistent application of the definition. I agree with Jeff King in that we are not reporting our estimate of the error, we are munging the data, and do not know how. Are we rounding or truncating? If we have Live GPS input, the position is not ambiguous. In this case, we can only assume that we are concealing our position.

-----Original Message-----

From: Ian Wade <Ian.Wade@care4free.net>
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Date: Monday, May 01, 2000 9:09 AM
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?

>In article <LYR14779-81011-2000.05.01-09.02.09--Ian.Wade@care4free.net@lists.tapr.org>, Tim Salo <salo@networkcs.com> writes

>

>>

>>I suggest that it makes more sense to admit the limitations of this
>>scheme, rather than to make overly broad claims about the security it
>>provides.

>

>Tim, I didn't say anything about security. Neither does the spec say
>anything about security.

>

>73

>Ian, G3NRW

>Technical Editor, APRS Protocol Specification

>

>--

>+-----+
>| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
>| email: g3nrw@arrl.net |
>| |
>| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
>+-----+
>

>---

>You are currently subscribed to aprsspec as: bhildebrand@earthlink.net

>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 1 12:39:28 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00791
for <lyris.aprsspec@tappr.org>; Mon, 1 May 2000 12:39:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 1 May 2000 13:36:27 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11586-81055-2000.05.01-11.40.36--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-81067-2000.05.01-12.38.00--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005011305520.29001-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Mon, 1 May 2000, Brent Hildebrand wrote:

> Position Ambiguity Where the exact position is not known, the mm and hh
> digits in the latitude and longitude may be progressively replaced by a
> V (space) character as the amount of imprecision increases. For example:
> 07201.7_W represents longitude to nearest 1/10th of a minute.
> 07201.___W represents longitude to nearest minute.
> 0720.___W represents longitude to nearest 10 minutes.
> 072___.___W represents longitude to nearest degree.
>
> The D700 case: Position is known when you have GPS input. Does Position
> ambiguity have meaning?

*** It always has meaning. There are 4 levels as defined above.

> How would you interpret Position Ambiguity when you have Live GPS
> input, particularly now that SA will be discontinued tonight?

*** Exactly as defined above...

> It is an inconsistent application of the definition.

*** Not at all. The 4 levels of position ambiguity are well defined, have unambiguous meaning and are ONLY A MEANS OF COMMUNICATING the 4 levels of ambiguity from the SENDER to the RECEIVER. How these 4 levels are encoded has nothing to do with the definition... Although the example above does use the most obvious (uncompressed) format.

> I agree with Jeff King in that we are not reporting our estimate of the
> error,

*** We Never were. That is not in the definition. I say again, POSITION AMBIGUITY only is a way of communicating the number of digits of precision that the SENDER wants the RECEIVER to use. If the SPEC is not conveying this, then we need to reword the spec. But that has always been the reason, purpose, definition, and implementation of position Ambiguity.

> we are munging the data, and do not know how.

*** I don't see ANY munged data. Position ambiguity CONVEYS to the receiver the number of DIGITS of precision the SENDER wants the RECEIVER to use. It is really very simple...

> Are we rounding or truncating?

*** Doesn't matter. What "position ambiguity" conveys is the number of digits of precision. It does not address the remaining digits. That is up to the sender or initiator of the data to enter what he wants to convey.

> If we have Live GPS input, the position is not ambiguous.

*** It doesn't matter. "Position ambiguity" in APRS has NOTHING TO DO WITH THE ACCURACY nor the PRECISION of the original position. It has ONLY to do with the number of digits that the SENDER intends for the RECEIVER to use...

> In this case, we can only assume that we are concealing our position.

*** Assume anything you want. It is not germane. The SENDER indicates via POSITION AMBIGUITY the number of digits he wants the RECEIVER to use

in his display of position. His reason for doing so does not matter.

*** Due to the apparent misunderstanding of Position Ambiguity, I would suggest a change to the spec from:

Position Ambiguity where the exact position is not known...

to

Position Ambiguity allows the originator of position data to convey to the receiver of that data the number of digits of precision to use in the display of his position. In the uncompressed format, this is accomplished by.....

... In the Mic-E this is accomplished by encoding using available bits in the LATITUDE field.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 12:42:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA01001
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 12:42:58 -0500 (CDT)
From: "Richard Carter" <rich.carter@windriver.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] GPS selective activation turned-off!
Date: Mon, 1 May 2000 13:41:42 -0400
Message-ID: <LYR11589-81069-2000.05.01-12.43.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR13907-81002-2000.05.01-08.25.46--rcarter#isi.com@lists.tapr.org>
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <NBBBJJKGMKOEJPJIIIFEGAENOJGAC.rich.carter@windriver.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

<http://www.whitehouse.gov/library/PressReleases.cgi?date=0&briefing=0>

Cheers!

Rich Carter - KE1EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 15:31:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA07783
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 15:31:14 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-81110-2000.05.01-15.32.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 01 May 2000 16:31:58 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GPS selective activation turned-off!
References: <LYR11601-81069-2000.05.01-12.43.49--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <390DE9BE.F10D74E@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Richard Carter wrote:

> <http://www.whitehouse.gov/library/PressReleases.cgi?date=0&briefing=0>

>
> Cheers!
>

:~)!!!!!!!!!!!!!!

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 15:51:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA08566
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 15:51:05 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-81114-2000.05.01-15.50.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 01 May 2000 16:50:03 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <LYR11601-81067-2000.05.01-12.38.00--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <390DEDFB.634FBE9F@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Mon, 1 May 2000, Brent Hildebrand wrote:

>
> > I agree with Jeff King in that we are not reporting our estimate of the
> > error,

I actually was agreeing with what Bob has posted on this very SIG a few months ago. Posted some links to it also earlier in which he agreed/didn't object to it then.

> *** We Never were. That is not in the definition. I say again, POSITION
> AMBIGUITY only is a way of communicating the number of digits of precision
> that the SENDER wants the RECEIVER to use. If the SPEC is not conveying
> this, then we need to reword the spec. But that has always been the
> reason, purpose, definition, and implementation of position Ambiguity.

Yes, that's its purpose this week. Understand Brent? ;-(

> > Are we rounding or truncating?
>
> *** Doesn't matter. What "position ambiguity" conveys is the number of
> digits of precision. It does not address the remaining digits. That is up
> to the sender or initiator of the data to enter what he wants to convey.

Rounding or truncating needs to be in the SPEC. It DOES matter if you want a consistent user space, and MUST be defined if the data is passed on.

> ...

Well, at least SA was turned off today! ;-(

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 16:26:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA10336
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 16:26:12 -0500 (CDT)
Date: Mon, 1 May 2000 16:25:08 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-81120-2000.05.01-16.26.41--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11595-81017-2000.05.01-09.12.11--
salo#networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200005012125.QAA52079@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Mon, 1 May 2000 10:10:00 -0400 (EDT)
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
>
> On Mon, 1 May 2000, Tim Salo wrote:
> > I suggest that it makes more sense to admit the limitations of this
> > scheme, rather than to make overly broad claims about the security it
> > provides.
>
> True, position ambiguity was not designed as a security measure. My
> apologies if I have confused anyone...

I am probably confused as to the precise (if you will excuse the pun)
motivation for position ambiguity.

> Date: Thu, 27 Apr 2000 21:13:13 -0400 (EDT)
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> Subject: [aprssig] Re: Findu and security?
>
> On Thu, 27 Apr 2000, pmarkham wrote:
> > 3. any ill willed lurker on the internet has a
> > 24 hour a day report of my base and mobile whereabouts along with any other
> > information that may be inferred. I have no use for that scenario.
> >
> > Is there a [way] that will prevent local traffic from being digi'd
> > world wide via the internet?
>
> No. But that was one of the reasons I fought so hard for the positino
> ambiguity capability that I built into APRS. Now most other authors
> (except for steve DIMse, I think) support it. Thus, you can remain
> ambiguous to the nearest .1, 1, 10, or 60 miles. Thus your position is
> known accurately enough for PATH, Propagation, and Message purposes, but
> not so detailed as to encourage mischief.

And from the TM-D700A Instruction Manual (Specialized Communications):

Programming Position Ambiguity

There may be cases where you do not know or do not want to report your precise locations. For position data, you can select the number of digits not to be included in your packets. ...

I suggest that the APRS protocol spec note the limitations of position ambiguity as a security measure (since it has been touted as a security facility repeatedly and for some time).

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 1 17:17:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA12354
for <lyris.aprsspec@tapr.org>; Mon, 1 May 2000 17:17:20 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-81151-2000.05.01-17.16.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 01 May 2000 18:16:33 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <LYR11601-81120-2000.05.01-16.26.41--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <390E0241.60AE79AF@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Tim Salo wrote:

> And from the TM-D700A Instruction Manual (Specialized Communications):
>
> Programming Position Ambiguity
>
> There may be cases where you do not know or do not want to report
> your precise locations. For position data, you can select the
> number of digits not to be included in your packets. ...

Well, you already know my feelings on letting Kenwood influence APRS development, but do note they say "where you do not know OR do not want to report your precise locations". Two distinct uses of position ambiguity, the first to convey the level of precision (our much touted high school example) and the other as a security measure.

> I suggest that the APRS protocol spec note the limitations of position
> ambiguity as a security measure (since it has been touted as a security
> facility repeatedly and for some time).

But its also been touted as a means to convey level of precision, see this posting from Bob from 1998 which is pre-WG:

<http://www.tapr.org/tapr/list-archive/aprssid/9810/msg00985.html>

This use of position ambiguity appears consistent with what the WG adopted.

The spec says:

>Position Ambiguity A reduction in the accuracy of APRS position information
>(implemented by replacing low-order lat/long digits with spaces). Used when the
>exact position is not known.

Implies the user (or sensor) gives their best guess as to their location, then that level of precision is carried in the APRS payload.

I repeat again. There is value in conveying a ACCURATE level of ambiguity. One need only look at the DF scenario to understand this and any other number of future applications of APRS in the communications field. While I understand that someone could use ambiguity as a means to purposely mask their position, I'm not comfortable with that being advocated in the spec (its not presently). There are much better long term means to do this, such as adoption of routing in the spec as well as flags the users can set to restrict the propagation of their posits.

-Jeff

P.S. Does anyone know if position ambiguity can be represented in the compressed format? As it starts with a numeric, it doesn't appear to me it can support position ambiguity. Now, it does have a GPS lock flag I note.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 2 21:34:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA27163
for <lyris.aprsspec@tapr.org>; Tue, 2 May 2000 21:34:44 -0500 (CDT)
Message-ID: <LYR11589-81433-2000.05.02-21.35.41--
lyris.aprsspec@tapr.org>
Reply-To: "Neil Johnson" <njohnson@interl.net>
From: "Neil Johnson" <njohnson@interl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
Date: Tue, 2 May 2000 21:31:20 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3612.1700
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <009e01bfb4a7\$ab4f43e0\$0100a8c0@nandts>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thought it was time for a reminder.

The current SPEC is to define the protocol AS IS on the air RIGHT NOW.

I agree the position ambiguity leaves some room for improvement, as are many

other things.

The APRS WG should put on their list of things to address in the NEXT version of the protocol.

Neil Johnson
njohnson@interl.net
<http://www.interl.net/~njohnson>

-----Original Message-----

From: Jeff King <jeff@aerodata.net>
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Date: Monday, May 01, 2000 5:17 PM
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?

>
>
>Tim Salo wrote:
>
>> And from the TM-D700A Instruction Manual (Specialized Communications):
>>
>> Programming Position Ambiguity
>>
>> There may be cases where you do not know or do not want to report
>> your precise locations. For position data, you can select the
>> number of digits not to be included in your packets. ...
>
>Well, you already know my feelings on letting Kenwood influence APRS
development,
>but do note they say "where you do not know OR do not want to report
>your precise locations". Two distinct uses of position ambiguity, the
first to
>convey the level of precision (our much touted high school example) and the
>other as a security measure.
>
>> I suggest that the APRS protocol spec note the limitations of position
>> ambiguity as a security measure (since it has been touted as a security
>> facility repeatedly and for some time).
>
>But its also been touted as a means to convey level of precision, see this
>posting from Bob from 1998 which is pre-WG:
><http://www.tapr.org/tapr/list-archive/aprssi/9810/msg00985.html>
>This use of position ambiguity appears consistent with what the WG adopted.
>
>The spec says:
>>Position Ambiguity A reduction in the accuracy of APRS position

information
>>(implemented by replacing low-order lat/long digits with spaces). Used
when the
>>exact position is not known.
>
>Implies the user (or sensor) gives their best guess as to their location,
then that
>level of precision is carried in the APRS payload.
>
>I repeat again. There is value in conveying a ACCURATE level of ambiguity.
One need
>only look at the DF scenario to understand this and any other number of
future applications
>of APRS in the communications field. While I understand that someone could
use
>ambiguity as a means to purposely mask their position, I'm not comfortable
with that being
>advocated in the spec (its not presently). There are much better long term
means to do this, such
>as adoption of routing in the spec as well as flags the users can set to
restrict the propagation
>of their posits.
>
>73
>
>-Jeff
>
>P.S. Does anyone know if position ambiguity can be represented in the
compressed format? As
>it starts with a numeric, it doesn't appears to me it can support position
ambiguity. Now, it does
>have a GPS lock flag I note.
>
>
>
>---
>You are currently subscribed to aprsspec as: njohnson@interl.net
>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 2 21:48:08 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA27766
for <lyris.aprsspec@tapr.org>; Tue, 2 May 2000 21:48:06 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-81436-2000.05.02-21.48.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 02 May 2000 22:47:35 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
References: <009e01bfb4a7\$ab4f43e0\$0100a8c0@nandts>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <390F9347.FAAE3881@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As you wrote me directly here...

Neil Johnson wrote:

> Thought it was time for a reminder.
>
> The current SPEC is to define the protocol AS IS on the air RIGHT NOW.

I'm confused, exactly who is suggesting the spec be changed? With regards to the definition of Position Ambiguity, looked fine to me as it was in the SPEC.

Or where you talking about Kenwood here?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 3 08:49:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA02646
for <lyris.aprsspec@tapr.org>; Wed, 3 May 2000 08:49:52 -0500 (CDT)
Date: Wed, 3 May 2000 08:47:28 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-81504-2000.05.03-08.50.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
In-Reply-To: <LYR11595-81433-2000.05.02-21.35.41--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200005031347.IAA93302@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> From: "Neil Johnson" <njohnson@interl.net>
> Subject: [aprsspec] Re: [aprssig] Proper use of position ambiguity?
> Date: Tue, 2 May 2000 21:31:20 -0500
>
> Thought it was time for a reminder.
>
> The current SPEC is to define the protocol AS IS on the air RIGHT NOW.
> [...]

I haven't been privy to the secret discussions of the APRS Working Group, but there have been some hints that this isn't entirely the case. I believe that there have been some cases where the protocol has been modified slightly in the process of developing the spec. In one or more of these instances different software implemented the protocol differently (which makes it difficult to say with precision what the on-the-air protocol really is).

I also believe that several deprecated protocol features are not contained in the spec, so a liberal implementation will have to accept protocol features beyond what are in the spec.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 3 10:08:13 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA05531
for <lyris.aprsspec@tapr.org>; Wed, 3 May 2000 10:08:10 -0500 (CDT)
Message-Id: <LYR11589-81512-2000.05.03-10.06.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Protocol Spec Third Draft
Date: Wed, 03 May 2000 11:05:15 -0300
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200005031505.LAA06156@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

=====
APRS WORKING GROUP
APRS PROTOCOL REFERENCE
THIRD PUBLIC DRAFT
=====

The APRS Working Group has now published the third (and hopefully final) public draft of the APRS Protocol Reference. It is available on the TAPR website, at <http://www.tapr.org/tapr/html/Faprswg.html>.

This latest draft incorporates *hundreds* of items of feedback received since the previous draft published last December, and has now grown to 115 pages.

Several sections have been considerably expanded and clarified. In particular, the chapters on Mic-E, Weather Reports and APRS Symbols have been substantially rewritten.

The Working Group invites feedback on the specification, although due to the extensive public comments that we have already received on prior drafts, we will not have a formal comment period as defined in the WG charter; what we ask for now are additional eyes to ensure that we haven't inadvertently introduced new errors to this draft. Comments should be addressed to the TAPR "aprsspec" mailing list. Details of how to join the list are given on page 2 of the document.

The cutoff date for feedback is midnight local time on Monday 15 May.

Then, depending on the amount of feedback received, the Working Group hopes to publish the Final Approved version of the specification a few weeks later.

John Ackermann, N8UR
Administrative Chair, APRS Working Group
2 May 2000

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 3 20:36:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA03380
for <lyris.aprsspec@tapr.org>; Wed, 3 May 2000 20:36:30 -0500 (CDT)
From: "Clarke Diekmann" <cldiekmann@mindspring.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Location of PHG power measurement
Date: Wed, 3 May 2000 19:33:24 -0500
Message-ID: <LYR11589-81571-2000.05.03-20.35.23--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000001bfb560\$5def1260\$22d48ad1@buzzby101>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Congrats on getting the next revision to the specification on the street!

One question I have had since recently joining the APRS legions has to do with the PHG(D) data extension. There is no discussion of where in the system the power figure is measured. The logical choices are at the transmitter antenna jack or at the antenna input connector. Maybe I'm too much the novice here, but it seems like a brief explanation is indicated to discuss where the "P" in PHG is measured/calculated. It seems logical to

assume that the figure is taken at the input to the antenna in order to facilitate a rough ERP estimate. Depending on the loss in the feedline I realize the delta between the two points of measurement may be lost in the calculation algorithms.

Clarke

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 4 05:35:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA14715
for <lyris.aprsspec@tapr.org>; Thu, 4 May 2000 05:35:55 -0500 (CDT)
Message-ID: <LYR11589-81650-2000.05.04-05.34.56--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Query: Hurricane Format
Date: Thu, 4 May 2000 10:33:08 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <003d01bfb5b4\$2458bfc0\$b1984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All-

First of all I would like to express my thanks for all the work that went into the Draft Protocol.

I have a couple of questions concerning Hurricane format. The Draft has a 5 character field for the minimum central pressure- expressed in tenths of a millibar. The hurricane center reports only in full millibars, so the final digit would always be zero. Also presently the field is three digits- with pressures above 999 having the beginning "one" truncated. If the

change is going to be 5 digits I need to know if present software can handle it. (At this writing we are 27 days from Atlantic hurricane season, 12 days from pacific.)

As for as course and speed- the spec is for knots for a forward speed for all objects (I believe). However the D700a has a "m" after the speed for an object, which I assume is for "MPH". Things are OK if this is a nautical mile per hour. At present I am reporting tornadoes and thunderstorms in MPH and Hurricanes in knots, and I would like to get off the fence. One solution is to report in knots and try to get the word out to D700a users there is a display bug. Which way should I go?

Thanks again for the hard work.

73 de KG5QD Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 4 08:12:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA20908
for <lyris.aprsspec@tapr.org>; Thu, 4 May 2000 08:12:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 4 May 2000 09:09:32 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Location of PHG power measurement
In-Reply-To: <LYR11586-81571-2000.05.03-20.35.23--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81659-2000.05.04-08.11.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005040908550.3009-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Your analysis is correct. It is not an exact science... Power getting to the antenna...

bob

On Wed, 3 May 2000, Clarke Diekmann wrote:

```
> Congrats on getting the next revision to the specification on the street!
>
> One question I have had since recently joining the APRS legions has to do
> with the PHG(D) data extension. There is no discussion of where in the
> system the power figure is measured. The logical choices are at the
> transmitter antenna jack or at the antenna input connector. Maybe I'm too
> much the novice here, but it seems like a brief explanation is indicated to
> discuss where the "P" in PHG is measured/calculated. It seems logical to
> assume that the figure is taken at the input to the antenna in order to
> facilitate a rough ERP estimate. Depending on the loss in the feedline I
> realize the delta between the two points of measurement may be lost in the
> calculation algorithms.
>
> Clarke
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>
```

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 4 08:23:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21555
for <lyris.aprsspec@tapr.org>; Thu, 4 May 2000 08:22:59 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 4 May 2000 09:22:24 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: "'John Ackermann'" <jra@febo.com>, aprsspec@lists.tapir.org
Subject: [aprsspec] RE: [aprssig] APRS Protocol Spec Third Draft
In-Reply-To: <E602AF974691D311AB4700902717789C2110AE@enleent101.ericsson.se>
Message-ID: <LYR11589-81663-2000.05.04-08.24.07--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <Pine.GSO.4.05L.10005040916130.3009-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Good point Henk. But I would modify your suggestion as follows:

- 1) If there is a mix of SSID routing and VIA paths, then the VIA path shall be used first. And each HOP is used up in the usual fashion.
- 2) SSID routing should only apply when:
 - a) There is no additional path *or*
 - b) All additional hops have been used up.

This solves the ambiguity you noted, but is the least restrictive. It allows for future versatility. For example, I am one hop away from an SSID network (say, in my basement with an HT), this would let me use APRS-4,RELAY and be able to get into the SSID system.

de WB4APR, Bob

On Thu, 4 May 2000, Henk de Groot (EMN) wrote:

> Hallo John,
>
> Another remark on the new specification:
>
> Maybe it should be prohibited that if the destination SSID of an APRS packet is not 0 then there shall be no digipeaters in the VIA list, or that digipeating on destination SSID only works without any digis in the VIA list. Otherwise you will get a mixup of old and new digipeater implementations. Old ones that just use the VIA list regardless of destination SSID and new ones that act on the destination SSID. Since the destination SSID digipeating is introduced to keep the packet small there is also no point in having a VIA list. My proposal:

>
> Frame:
>
> PE1DNN>APZ008-7 - use generic digipeating on destination SSID
>
> PE1DNN>APZ008,WIDE - use generic digipeating on VIA list
>
> PE1DNN>APZ008-7,WIDE - use generic digipeating on VIA list, not on
> SSID
>
> The specification is now not clear on what to do in the last case and also I
think old and new digis should act consistently in the same way, therefore only
allow digipeating on destination-SSID if there are no digipeaters in the VIA list.
>
> Kind regards,
>
> Henk.
>
> P.S. also send a Cc to Bob for comment.
>
> P.S.2. I'm not a member of the specification list so I hope you can take it this
way... (I don't want too much traffic and discussions in my e-mail, this is a
corporate account you see).
>
> --
> #####
> The difference between theory and practice in practice is bigger than
> the difference between theory and practice in theory.
>
> Henk de Groot | Tel: +31 53 4505400 Ext: 5400
> <Henk.de.Groot@emn.ericsson.se> | Ericsson Business Mobile Networks
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 4 08:32:14 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22003
for <lyris.aprsspec@tappr.org>; Thu, 4 May 2000 08:32:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 4 May 2000 09:29:55 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Query: Hurricane Format
In-Reply-To: <LYR11586-81650-2000.05.04-05.34.56--
bruninga@nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-81667-2000.05.04-08.31.28--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005040925380.3009-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

For Hurrican PRESSURE, we are waiting for comments from Mark. He was out of town during the last round of comments, and I confused myself and everyone else by "thinking" of the PRESSURE in the normal WX report (5 digits) and not the Hurricane format (which I do NOT parse I just display it as written).

So, Dale, and Mark (and anyone else with an opinion) settle it. I'll go with whatever you want.

Bob
. On
Thu, 4 May 2000, Dale Huguley wrote:

> Hi All-
> First of all I would like to express my thanks for all the work that
> went into the Draft Protocol.
>
> I have a couple of questions concerning Hurricane format. The Draft has a 5
> character field for the minimum central pressure- expressed in tenths of a
> millibar. The hurricane center reports only in full millibars, so the
> final digit would always be zero. Also presently the field is three digits-
> with pressures above 999 having the beginning "one" truncated. If the

> change is going to be 5 digits I need to know if present software can handle
> it. (At this writing we are 27 days from Atlantic hurricane season, 12 days
> from pacific.)
>
> As for as course and speed- the spec is for knots for a forward speed
> for all objects (I believe). However the D700a has a "m" after the speed
> for an object, which I assume is for "MPH". Things are OK if this is a
> nautical mile per hour. At present I am reporting tornadoes and
> thunderstorms in MPH and Hurricanes in knots, and I would like to get off
> the fence. One solution is to report in knots and try to get the word out
> to D700a users there is a display bug. Which way should I go?
>
> Thanks again for the hard work.
>
> 73 de KG5QD Dale
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tappr.org/tappr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 4 11:53:02 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06517
for <lyris.aprsspec@tappr.org>; Thu, 4 May 2000 11:52:52 -0500 (CDT)
From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Conversion factors in 1.0.1m
Date: Thu, 04 May 2000 19:52:54 +0300
Message-ID: <LYR11589-81703-2000.05.04-11.53.54--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0

Content-Type: text/plain; charset=ISO-8859-1
X-MIME-Autoconverted: from 8bit to quoted-printable by ds9.sci.fi id TAA18469
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <up93hsskn1pua9dqj3gb19kgk0pq922gs8@4ax.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id LAA06517

It is nice to see the added explanation of data transfer units and display units and also the collection of required conversion factors into a single table (from scattered around the glossary in the 1.0.1g version).

However, I would like to emphasise the importance of doing these conversions properly. Assuming the data is generated in some unspecified unit A and in order to use the on-the-air unit B, the value must be multiplied with a factor x . If we want to display the value at the other end in unit A, the on-the-air value must be multiplied by $1/x$. However, if too small numeric precision is used to express the $1/x$ factor, the original value will not be represented.

To exaggerate, assume that the on-the-air unit is six times smaller than the original measurement, thus $x=6$. If the source will produce a measurement of 100, the on the air value will be 600. Assuming $1/x$ or $1/6$ is represented with only two decimals, we would get 0.17 and multiplying this with the on air value, will give 102, which is clearly different from the original value. If the value is rebroadcasted, the error will cumulate.

This is just what happens with some values in the conversion table. For instance one foot is exactly 0.30480000... meters by definition, but the constant for $1/x$ is given as 3.2808 with only five significant digits, while even the single precision IEEE floating point system (used in e.g. x86 and 68k series processors) give 6-7 digits and double precision 14-15 digits.

I have recalculated the conversion factor values to at least 14 significant digits (use fixed pitch font for better readability):

> Units Conversion Table

>Multiply	by	to get
>feet	0.3048	meters

(this is by definition)

```
>meters      3.2808      feet
              3.2808398950131
```

```
>miles      1.609344      km
>km         0.6214      miles
              0.62137119223733
```

```
>miles      0.8689762 nautical miles
              0.86897624190065
>nautical miles 1.1507794 miles
              1.15077944802354
```

```
>miles per hour (mph) 0.8689762 knots
                      0.86897624190065
>knots 1.1507794 miles per hour (mph)
              1.15077944802354
```

```
>knots 0.514440 meters / second
>meters / second 1.9438446 knots
              1.94384449244061
```

(note that the last digit in the original value was incorrect)

```
>miles per hour (mph) 0.44704 meters / second
>meters / second 2.2369362 miles per hour (mph)
              2.2369362920544
```

Some of those values are still approximations after 14 digits and since multiplying by $1/x$ is the same as dividing by x , it would be better to reformat the table slightly and only use exact values by either multiplying with or dividing by the exact value. In some cases both multiplication and division had to be used

Units Conversion Table

Convert from ! multiply by ! divide by ! to get

feet	!	0.3048	!		!	meters
meters	!		!	0.3048	!	feet

miles	!	1.609344	!		!	km
km	!		!	1.609344	!	miles

miles	!	1.609344	!	1.852	!	nautical miles
nautical miles	!	1.852	!	1.609344	!	miles

(mph)	!	1.609344	!	1.852	!	knots
-------	---	----------	---	-------	---	-------

knots ! 1.852 ! 1.609344 ! miles per hour (mph)

(knots ! 0.514440 ! ! meters / second)

(m/s ! ! 0.51444... ! knots)

or better yet

knots ! 1852 ! 3600 ! m/s
m/s ! 3600 ! 1852 ! knots

(mph) ! 0.44704 ! ! m/s
m/s ! ! 0.44704 ! mph

Examples:

5 ft = 5 * 0.3048 = 1.524 m or rounded to 1.5 m

12.5 km = 12.5 / 1.609344 or about 7.77 miles.

7.45 kt = 7.45 * 1.852 / 1.609344 or about 8.57 mph

In order to avoid unnecessary conversion errors, it is important that all stations use the same conversion constants and formulas. By including these into the specification, the risk is greatly reduced that some implementor decides to make some shortcuts that may cause conversion errors.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 6 20:01:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA00960
for <lyris.aprsspec@tapr.org>; Sat, 6 May 2000 20:01:17 -0500 (CDT)
Message-ID: <LYR11589-81994-2000.05.06-19.17.29--
lyris.aprsspec@tapr.org>
Date: Fri, 05 May 2000 19:21:42 -0400
From: Stan Horzepa <stanzepa@mail2.nai.net>
Reply-To: stanzepa@mail2.nai.net
Organization: WA1LOU

X-Accept-Language: en,pdf
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] ADMIN: mail to the SIG administrator
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <39135784.AE52CFB2@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The ILOVEYOU virus hit us hard at work and as a result, very little email has gone in or out of my workplace. If you sent SIG-administrator-related mail to my work email address (stan_horzepa@adc.com) early Thursday morning or later, I likely did not get it and likely won't get it. So, please resend it to wallou@tappr.org.

And, for the time being, only send SIG administrator mail to the email address of wallou@tappr.org.

Thanks for your cooperation,

Stan Horzepa, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat May 6 21:01:08 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA03501
for <lyris.aprsspec@tappr.org>; Sat, 6 May 2000 21:01:06 -0500 (CDT)
Message-ID: <LYR11589-82056-2000.05.06-20.15.34--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 6 May 2000 18:15:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Announcing the APRS DECODER
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <gnCu+iAhMFF5Ewi9@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

=====
ANNOUNCING "APRSDEC"
THE FULL APRS DECODER PROGRAM
by Ian Wade, G3NRW
6 May 2000
=====

While working on the APRS Protocol Specification, I found it useful to write an APRS Decoder Program (APRSDEC) to verify the details of the protocol.

APRSDEC parses APRS packets in IGate output format, and produces a full decode of all elements of each packet. This will be particularly useful for APRS developers/testers, and also for people who need/want to know more about the protocol, or who want to check out their own packet formats.

Among the more obscure formats, APRSDEC fully understands Mic-E, compressed positions and area objects (circles, triangles etc).

Here is an example of APRSDEC output:

~~~~~  
~~~~~  
APRSDEC. APRS Packet Decoder.
Version 1.0.1b (5 May 2000)
by Ian Wade, G3NRW (g3nrw@arrl.net)

Runtime = 06-May-2000 16:13:21
Input file = examples.log
Output file = examples.out

NOTE: If this report contains anything that you think is incorrect,
please email it to g3nrw@arrl.net for investigation. Thank you.

Record # 1
EXAMPLES.LOG

Record # 2

WA3SFJ-1>APRS:!3938.16NR07604.26W#PHG3533/CBRA Relay Digi

APRS Data Type= Posit w/o time. No APRS

Lat= 39 deg 38 min 10 sec N Long= 76 deg 4 min 16 sec W

Icon= Star (green) Overlay= R

Power= 9 watts Ant Height above average terrain= 320 ft Gain= 3 dB

Range= 24 miles Directivity= South East

Record # 3

KD6VZQ-1>APRS,TCPIP,KF6QHT*:@270500z3724.66N/12205.51Wj118/000/Mic-E/M4/Committed>

APRS Data Type= Posit w/ time. With APRS

Day=27 Time=05hrs 00mins UTC

Lat= 37 deg 24 min 40 sec N Long= 122 deg 5 min 31 sec W

Icon= Jeep Overlay= (none)

Course= 118 deg Speed= 0 knots (0 mph)

Record # 4

KD6VZQ-1>3WRTVX,WR6ABD,W6CX-3*:'2]P1!.j/] "4.}

APRS Data Type= Current Mic-E data

Radio= Kenwood TM-D700

Message= /M4/Committed

Lat= 37 deg 24 min 41 sec N Long= 122 deg 5 min 31 sec W

Icon= Jeep Overlay= (none)

Course= 118 deg Speed= 0 knots (0 mph)

Altitude= 23 meters (75 feet)

Record # 5

G3NRW>3WRTZZ*:'2]P1!.j/] "4.}

APRS Data Type= Current Mic-E data

Radio= Kenwood TM-D700

Message= /M4/Committed

Lat= 37 deg 24 min 0 sec N Long= 122 deg 5 min 0 sec W

** WARNING: POSITION AMBIGUOUS to the nearest minute

Icon= Jeep Overlay= (none)

Course= 118 deg Speed= 0 knots (0 mph)

Altitude= 23 meters (75 feet)

Record # 6

WB4APR>APRK11,W5RRR,RELAY,RELAY;;MOVIE *270138z/:iT!;.C!E{*!Friday Night

APRS Data Type= Object

Object Name= MOVIE (Live)

Day=27 Time=01hrs 38mins UTC

Lat= 38 deg 57 min 58 sec N Long= 76 deg 32 min 56 sec W
Icon= Eyeball Overlay= (none)
Pre-Calculated Radio Range= 4 miles
GPS Fix= Old NMEA Source= Other Compression Origin= Compressed

Record # 7

G3NRW>APRS:;ATLANTIC *012345z0023.45N\00034.56E16201310{10}
APRS Data Type= Object
Object Name= ATLANTIC (Live)
Day=01 Time=23hrs 45mins UTC
Lat= 0 deg 23 min 27 sec N Long= 0 deg 34 min 34 sec E
Icon= Area Symbol Overlay= (none)
Object Type= Line (Type 6) Object Color= Violet (low intensity)
Corridor= 10 miles either side of line
yy offset= 4 deg down xx offset= 1 deg left
Offset Posit: Lat= 3 deg 36 min 33 sec S Long= 0 deg 25 min 26 sec W

Record # 8

VE6CPK>APW245,TCPIP*:_04270500c035s000g001t045r000p000P000h00b10279wDAV
APRS Data Type= Weather stn (w/o posit)
Month=Apr Day=27 Time=05hrs 00mins UTC
Wind Direction= 35 deg Wind Speed= 0 mph Gust= 1 mph
Temp= 45 degF Rain last hr= 0 in. last 24hrs= 0 in. since midnight= 0 in.
Humidity= 100 % Barometric pressure= 1027.9 millibars

Record # 9

HL5BHH-9>APRS,WIDE:
\$GPRMC,050012,A,3508.544,N,12901.328,E,000.0,161.0,270400,006.9,W*63
APRS Data Type= Raw GPS Data
Month=Apr Day=27 Year=00 Time=05hrs 00mins 12secs UTC
Lat= 35 deg 8 min 32 sec N Long= 129 deg 1 min 19 sec E
Icon= Car Overlay= (none)
Course= 161.0 deg Speed= 0 knots (0 mph)
Status=Valid Mag variation=006.9W

+++++ END OF INPUT FILE +++++

~~~~~  
~~~~~

With a few unimportant exceptions, APRSDEC understands all of the APRS features included

in the Protocol Specification. As an extreme example, look at Record #7 above.
This draws
a line object with a 10-mile corridor either side, and is carefully contrived to
cross
both the Greenwich Meridian and the Equator -- the offset posit shows the position
of the
end of the line, in the opposite latitude and longitude hemispheres.

APRSDEC even recognizes Kenwood TM-D700 radios, and corrects the posit to be a
current
posit rather than an *old* posit. Position ambiguity (Mic-E and uncompressed lat/
long) is
also handled correctly.

APRSDEC includes extensive error reporting, showing for example when a parameter
is out of
range, or in is the wrong format, or (in the case of NMEA sentences) where there
is a bad
checksum.

APRSDEC is now available at <http://www.netro.co.uk/aprs.htm>

This is the first publicly released version, and I would welcome any feedback,
especially
if you find any errors.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm      |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 7 00:33:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA19089

for <lyris.aprsspec@tapr.org>; Sun, 7 May 2000 00:33:27 -0500 (CDT)
Message-Id: <LYR11589-82187-2000.05.07-00.34.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 6 May 2000 22:33:09 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Presentation of Position Ambiguity
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130303b53aaee8d6df@[198.106.196.70]>
<LYR11893-82164-2000.05.07-00.00.33--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello group -

In the recent discussion about position ambiguity, Bob stated that DosAPRS shows a "circle of ambiguity" below certain scale factors.

However, the ambiguity is given as a certian latitude and longitude (the latter directly or inferred, depending on the encoding device).

with all due respect, displaying this ambiguity as a circle is wrong. It is a rectangle!

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun May 7 08:30:48 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11588
for <lyris.aprsspec@tappr.org>; Sun, 7 May 2000 08:30:43 -0500 (CDT)
Message-ID: <LYR11589-82241-2000.05.07-08.32.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 7 May 2000 14:30:34 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Presentation of Position Ambiguity
References: <LYR14779-82187-2000.05.07-00.34.46--
Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-82187-2000.05.07-00.34.46--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <cEERWfA6\$WF5Ew3\$@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-82187-2000.05.07-00.34.46--Ian.Wade#care4free.net@lists.tappr.org>, Jim Wagner <wagnerj@proaxis.com> writes
>Hello group -
>
>In the recent discussion about position ambiguity, Bob stated that DosAPRS
>shows a "circle of ambiguity" below certain scale factors.
>
>However, the ambiguity is given as a certian latitude and longitude (the
>latter directly or inferred, depending on the encoding device).
>
>with all due respect, displaying this ambiguity as a circle is wrong. It is
>a rectangle!

Agreed. For example, for the posit 1234. N/12345. W-, the location is only known to the nearest minute, so the rectangle looks like this:

12deg 34.99min N		12deg 34.99min N
123deg 45.99min W	+-----+	123deg 45.00min W

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <072f01bfb832\$00b990a0\$e694b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id JAA13857

One observation: APRS uses Degrees/Minutes for Lat/Long. The decoder reports Degrees/Minutes/Seconds. I should clarify, APRS uses Degrees/Minutes for most packets reporting position. Mic-E is also encoded from Degrees/Minutes. The ? APRS? range query uses Decimal Degrees. NMEA is also a form of Degrees/Minutes. I would suggest reporting position in your decoder as Degrees/Minutes, in place of Degrees/Minutes/Seconds to be consistent with APRS format. Brent

----- Original Message -----

From: Ian Wade <Ian.Wade@care4free.net>
To: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Sent: Saturday, May 06, 2000 10:15 AM
Subject: [aprsspec] Announcing the APRS DECODER

>
> =====
> ANNOUNCING "APRSDEC"
> THE FULL APRS DECODER PROGRAM
> by Ian Wade, G3NRW
> 6 May 2000
> =====
>
> While working on the APRS Protocol Specification, I found it useful to write an
APRS
> Decoder Program (APRSDEC) to verify the details of the protocol.
>
> APRSDEC parses APRS packets in IGate output format, and produces a full decode
of all
> elements of each packet. This will be particularly useful for APRS developers/
testers, and
> also for people who need/want to know more about the protocol, or who want to
check out
> their own packet formats.

>
> Among the more obscure formats, APRSDEC fully understands Mic-E, compressed
positions and
> area objects (circles, triangles etc).

> Here is an example of APRSDEC output:

~~~~~  
> APRSDEC. APRS Packet Decoder.  
> Version 1.0.1b (5 May 2000)  
> by Ian Wade, G3NRW (g3nrw@arrl.net)

>  
> Runtime = 06-May-2000 16:13:21  
> Input file = examples.log  
> Output file = examples.out

> NOTE: If this report contains anything that you think is incorrect,  
> please email it to g3nrw@arrl.net for investigation. Thank you.

> -----  
> Record # 1  
> # EXAMPLES.LOG

> -----  
> Record # 2  
> WA3SFJ-1>APRS:!3938.16NR07604.26W#PHG3533/CBRA Relay Digi  
> APRS Data Type= Posit w/o time. No APRS  
> Lat= 39 deg 38 min 10 sec N Long= 76 deg 4 min 16 sec W  
> Icon= Star (green) Overlay= R  
> Power= 9 watts Ant Height above average terrain= 320 ft Gain= 3 dB  
> Range= 24 miles Directivity= South East

> -----  
> Record # 3  
> KD6VZQ-1>APRS,TCPIP,KF6QHT\*:@270500z3724.66N/12205.51Wj118/000/Mic-E/M4/  
Committed>  
> APRS Data Type= Posit w/ time. With APRS  
> Day=27 Time=05hrs 00mins UTC  
> Lat= 37 deg 24 min 40 sec N Long= 122 deg 5 min 31 sec W  
> Icon= Jeep Overlay= (none)  
> Course= 118 deg Speed= 0 knots ( 0 mph)

> -----  
> Record # 4  
> KD6VZQ-1>3WRTVX,WR6ABD,W6CX-3\*:'2]P1!.j/] "4.}  
> APRS Data Type= Current Mic-E data

```

> Radio= Kenwood TM-D700
> Message= /M4/Committed
> Lat= 37 deg 24 min 41 sec N    Long= 122 deg 5 min 31 sec W
> Icon= Jeep    Overlay= (none)
> Course= 118 deg  Speed=  0 knots ( 0 mph)
> Altitude= 23 meters ( 75 feet)
>
> -----
> Record # 5
> G3NRW>3WRTZZ*:'2]P1!.j/] "4.}
> APRS Data Type= Current Mic-E data
> Radio= Kenwood TM-D700
> Message= /M4/Committed
> Lat= 37 deg 24 min 0 sec N    Long= 122 deg 5 min 0 sec W
> ** WARNING: POSITION AMBIGUOUS to the nearest minute
> Icon= Jeep    Overlay= (none)
> Course= 118 deg  Speed=  0 knots ( 0 mph)
> Altitude= 23 meters ( 75 feet)
>
> -----
> Record # 6
> WB4APR>APRK11,W5RRR,RELAY,RELAY::MOVIE    *270138z/:iT!;.C!E{*!Friday Night
> APRS Data Type= Object
> Object Name= MOVIE    (Live)
> Day=27 Time=01hrs 38mins UTC
> Lat= 38 deg 57 min 58 sec N    Long= 76 deg 32 min 56 sec W
> Icon= Eyeball    Overlay= (none)
> Pre-Calculated Radio Range= 4 miles
> GPS Fix= Old    NMEA Source= Other    Compression Origin= Compressed
>
> -----
> Record # 7
> G3NRW>APRS::ATLANTIC *012345z0023.45N\00034.56E16201310{10}
> APRS Data Type= Object
> Object Name= ATLANTIC    (Live)
> Day=01 Time=23hrs 45mins UTC
> Lat= 0 deg 23 min 27 sec N    Long= 0 deg 34 min 34 sec E
> Icon= Area Symbol    Overlay= (none)
> Object Type= Line (Type 6)    Object Color= Violet (low intensity)
> Corridor= 10 miles either side of line
> yy offset= 4 deg down    xx offset= 1 deg left
> Offset Posit:    Lat= 3 deg 36 min 33 sec S    Long= 0 deg 25 min 26 sec W
>
> -----
> Record # 8
> VE6CPK>APW245,TCPIP*:_04270500c035s000g001t045r000p000P000h00b10279wDAV
> APRS Data Type= Weather stn (w/o posit)
> Month=Apr Day=27 Time=05hrs 00mins UTC

```



> Wind Direction= 35 deg Wind Speed= 0 mph Gust= 1 mph  
> Temp= 45 degF Rain last hr= 0 in. last 24hrs= 0 in. since midnight= 0 in.  
> Humidity= 100 % Barometric pressure= 1027.9 millibars

>

> -----

> Record # 9

> HL5BHH-9>APRS,WIDE:

\$GPRMC,050012,A,3508.544,N,12901.328,E,000.0,161.0,270400,006.9,W\*63

> APRS Data Type= Raw GPS Data

> Month=Apr Day=27 Year=00 Time=05hrs 00mins 12secs UTC

> Lat= 35 deg 8 min 32 sec N Long= 129 deg 1 min 19 sec E

> Icon= Car Overlay= (none)

> Course= 161.0 deg Speed= 0 knots ( 0 mph)

> Status=Valid Mag variation=006.9W

>

> ++++++ END OF INPUT FILE ++++++

>

>

>

~~~~~

>

>

>

> With a few unimportant exceptions, APRSDEC understands all of the APRS features included

> in the Protocol Specification. As an extreme example, look at Record #7 above. This draws

> a line object with a 10-mile corridor either side, and is carefully contrived to cross

> both the Greenwich Meridian and the Equator -- the offset posit shows the position of the

> end of the line, in the opposite latitude and longitude hemispheres.

>

> APRSDEC even recognizes Kenwood TM-D700 radios, and corrects the posit to be a *current*

> posit rather than an *old* posit. Position ambiguity (Mic-E and uncompressed lat/long) is

> also handled correctly.

>

> APRSDEC includes extensive error reporting, showing for example when a parameter is out of

> range, or in is the wrong format, or (in the case of NMEA sentences) where there is a bad

> checksum.

>

> APRSDEC is now available at <http://www.netro.co.uk/aprs.htm>

>

> This is the first publicly released version, and I would welcome any feedback,
especially
> if you find any errors.

>

>

> 73

> Ian, G3NRW

> Technical Editor, APRS Protocol Specification

> ***** Third draft now available *****

> --

> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
> | APRS DECODER: <http://www.netro.co.uk/aprs.htm> |
> +-----+

>

> ---

> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

>

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 7 12:24:34 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA20494

for <lyris.aprsspec@tapr.org>; Sun, 7 May 2000 12:24:33 -0500 (CDT)

Message-ID: <LYR11589-82292-2000.05.07-12.25.55--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Sun, 7 May 2000 18:19:09 +0100

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Ian Wade <Ian.Wade@care4free.net>

Reply-To: ianwade@netro.co.uk

Subject: [aprsspec] Re: Announcing the APRS DECODER

References: <LYR11585-82056-2000.05.06-20.15.34--

bhildebrand#earthlink.net@lists.tapr.org>

<LYR14779-82257-2000.05.07-09.40.51--Ian.Wade#care4free.net@lists.tapr.org>

In-Reply-To: <LYR14779-82257-2000.05.07-09.40.51--

Ian.Wade#care4free.net@lists.tapr.org>

MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <44JYJoANWaf5EwQL@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-82257-2000.05.07-09.40.51--Ian.Wade#care4free.net@lists.tapr.org>, Brent Hildebrand <bhildebrand@earthlink.net> writes
>One observation: APRS uses Degrees/Minutes for Lat/Long. The decoder reports
>Degrees/Minutes/Seconds. I should clarify, APRS uses Degrees/Minutes for most
>packets reporting position. Mic-E is also encoded from Degrees/Minutes. The
>?APRS? range query uses Decimal Degrees. NMEA is also a form of
>Degrees/Minutes. I would suggest reporting position in your decoder as
>Degrees/Minutes, in place of Degrees/Minutes/Seconds to be consistent with APRS
>format. Brent

OK, I understand that. In fact, others have asked for temperatures in Celsius, speeds in km/hour, meters/sec etc. So in the next release there will be a .INI file where you can set up your own preferences.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 7 20:41:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA10393
for <lyris.aprsspec@tapr.org>; Sun, 7 May 2000 20:41:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 7 May 2000 21:40:46 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Presentation of Position Ambiguity
In-Reply-To: <LYR11586-82187-2000.05.07-00.34.46--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-82370-2000.05.07-20.42.58--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005072140010.23660-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 6 May 2000, Jim Wagner wrote:

>
> In the recent discussion about position ambiguity, Bob stated that DosAPRS
> shows a "circle of ambiguity" below certain scale factors.
>
> However, the ambiguity is given as a certian latitude and longitude (the
> latter directly or inferred, depending on the encoding device).
>
> with all due respect, displaying this ambiguity as a circle is wrong. It is
> a rectangle!

Or a circle containing the rectangle...

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun May 7 20:55:32 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA10983
for <lyris.aprsspec@tappr.org>; Sun, 7 May 2000 20:55:32 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 7 May 2000 21:55:17 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: Announcing the APRS DECODER
In-Reply-To: <LYR11586-82292-2000.05.07-12.25.55--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-82371-2000.05.07-20.56.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005072151590.23660-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 7 May 2000, Ian Wade wrote:

> OK, I understand that. In fact, others have asked for temperatures in
> Celsius, speeds in km/hour, meters/sec etc. So in the next release there
> will be a .INI file where you can set up your own preferences.

Ian, this battle has been raging from day one. And I think we even got it
into the spec that the "standard" format for APRS is DEGS and MINUTES.

Yes, you can convert and display in anything you want, but we prefer that
such displays make it clear what the APRS standard is so that when we are
talking VOICE we have some degree of consistency. I am amazed at what I
hear on the air. So many folks don't know the difference between seconds
and decimal minutes and use them interchangeably. To avoid this tower of
babble we prefer to entrench in to the APRS community, only one "standard"
method. They can convert as needed... but we need a "common" approach
throughout APRSdom...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 8 01:10:09 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA27509
for <lyris.aprsspec@tapr.org>; Mon, 8 May 2000 01:10:04 -0500 (CDT)
Message-ID: <LYR11589-82426-2000.05.08-01.11.24--

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 8 May 2000 06:49:15 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Announcing the APRS DECODER
References: <LYR11586-82292-2000.05.07-12.25.55--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR14779-82371-2000.05.07-20.56.55--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-82371-2000.05.07-20.56.55--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <ynsqeNAbVlF5EwB\$@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-82371-2000.05.07-20.56.55--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadm.navy.mil> writes

>
>Ian, this battle has been raging from day one. And I think we even got it
>into the spec that the "standard" format for APRS is DEGS and MINUTES.
>
>Yes, you can covert and display in anything you want, but we prefer that
>such displays make it clear what the APRS standard is so that when we are
>talking VOICE we have some degree of consistency. I am amazed at what I
>hear on the air. So many folks don't know the difference between seconds
>and decimal minutes and use them interchangeably. To avoid this tower of
>babble we prefer to entrench in to the APRS community, only one "standard"
>method. They can convert as needed... but we need a "common" approach
>throughout APRSdom...
>

Agreed Bob. My approach in future with APRSDEC will be to ALWAYS report the output in APRS standard units (with no means of turning that off), PLUS an optional conversion in parentheses (as I have already done in converting knots to mph, for example). In fact, in the current version, everything except lat/long *is* reported in APRS standard units.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 8 01:11:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA27552
for <lyris.aprsspec@tapr.org>; Mon, 8 May 2000 01:11:33 -0500 (CDT)
Message-ID: <LYR11589-82427-2000.05.08-01.11.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 8 May 2000 07:09:55 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Presentation of Position Ambiguity
References: <LYR11586-82187-2000.05.07-00.34.46--
bruninga@nadn.navy.mil@lists.tapr.org>
<LYR14779-82370-2000.05.07-20.42.58--Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-82370-2000.05.07-20.42.58--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <JnWk+XAzolF5EwnB@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-82370-2000.05.07-20.42.58--Ian.Wade@care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes

>
>Or a circle containing the rectangle...
>

Yup, I guess that qualifies as ambiguous <grin>

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 10 18:32:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA18086
for <lyris.aprsspec@tapr.org>; Wed, 10 May 2000 18:32:38 -0500 (CDT)
Message-ID: <LYR11589-83023-2000.05.10-18.34.08--
lyris.aprsspec@tapr.org>
Date: Wed, 10 May 2000 16:32:25 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] A Question about Map View and Range Scale
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20000510233225.11940.qmail@web903.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello everyone -

I am concerned about the statement at the bottom of Page 11 of 1.0.1m
on "Map Views and Range Scale".

First, let me provide the definitions >>I<< use:

Map - the visual presentation of a geographical data base through which the the user can navigate without manually requesting the loading of a new map.

View - that portion of a map which is visible on a computer screen at any instant, without any manipulation. The view may encompass an entire map, or it may encompass much less than an entire map.

Here is an example. In WinAPRS or MacAPRS, you get a U.S. map and some regional maps. If you want to view anything in any detail, you need to go to a menu and select another "map" (say, Washington). Within any map, you can shift the view to see a region of the map. That region can be as large as the whole map or it can be some smaller part as the result of "zooming in". But, there is still a point beyond which, if you want more detail, you have to load yet another map. This is the distinction I make between Map & View.

=====

The quote:

APRS is a tactical geographical system, and users need to be able to relate map views in a non-ambiguous way. Thus all map displays should have a meaningful legend to convey the scale of the map view to the user.

Thus when communicating about such views, three parameters are required:
the latitude and longitude of the map center and the Range Scale.

In this context, the Range Scale is the approximate range (in nautical miles, miles or km) from the center of the map to the top or bottom. This convention gives all software users a common basis for describing tactical map views (at whatever Range Scale is in use).

=====

(end of quote)

Suppose that you are using APRS+SA. There, the map covers the entire surface of the earth. You can move seamlessly to any place on the earth without having to load a single "map". For the SA map, the center of the map is 0000.00/00000.00 and the Range Scale is 6220 miles (approx distance from equator to either pole). I find no use for this "info" at all.

Suppose that the user has a very detailed map of the (contiguous) U.S. and the center is somewhere around Nebraska. And, suppose that the user has zoomed in to view the Seattle area. Pardon me, but the location of the center of the map and the "Range Scale" don't matter one iota. What does the user care while viewing a boat on the Puget Sound that the

"center" of the map is out there in "no-human's land".

Suppose that we substitute the term "view" for the term "map" in the quoted text. It still makes no sense. Here is an example:

I can have a view which is the full width of my monitor screen but with a very small height because I am watching vehicles along I-84 in the western U.S. while monitoring my local APRS traffic (in other non-map) windows. What information does this "Range Scale" provide? It may be only 50 miles while having an east-west extent of 500 miles or more.

For that matter, I just might even have multiple map windows (with several open and visible at the same time).

But, then, what DOES matter? To my mind, the only thing that does matter is that stations in an event be able to view locations which are of shared importance. If a user can readily shift the location of a view to "see" a specified geographical location or a specified symbol (or symbols), can determine the geographical location of a point within the current view, and determine the distance between two points in the view, then that is sufficient.

It seems to me that this statement is a hang-up on the idea of military tactical map display. I argue that its usefulness is nearly zero for real-world ham application of APRS. If Bob wants to develop commercial applications of APRS which can be sold to the military, that is one thing. But to shackle us with that requirement makes little or no sense at all.

Thanks for putting up with my rant!

Jim, KA7EHK

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 10 20:53:30 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA23435
for <lyris.aprsspec@tappr.org>; Wed, 10 May 2000 20:53:30 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 10 May 2000 21:53:18 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: A Question about Map View and Range Scale
In-Reply-To: <LYR11586-83023-2000.05.10-18.34.08--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-83053-2000.05.10-20.55.03--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005102140210.9992-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 10 May 2000, James Wagner defined VIEW:

> View - that portion of a map which is visible on a computer screen

Then he noted:

> =====
> APRS is a tactical geographical system, and users need to be able to
> relate map views in a non-ambiguous way. Thus all map displays should
> have a meaningful legend to convey the scale of the map view to the
> user.
>
> Thus when communicating about such views, three parameters are
> required: the LAT/LONG of the map center and the Range Scale.
>
> In this context, the Range Scale is the approximate range (in nautical
> miles, miles or km) from the center of the map to the top or bottom.
> This convention gives all software users a common basis for describing
> tactical map views (at whatever Range Scale is in use).
> =====

He then correctly argues that the center of the "MAP" is meaningless. He is right. Lets change the above paragraph from "map" to "view". Clearly "view" was intended.

> Suppose that we substitute the term "view" for the term "map" in the
> quoted text. It still makes no sense. Here is an example:
>
> I can have a view which is the full width of my monitor screen but with
> a very small height because I am watching vehicles along I-84 in the
> western U.S. while monitoring my local APRS traffic (in other non-map)
> windows. What information does this "Range Scale" provide? It may be
> only 50 miles while having an east-west extent of 500 miles or more.

Yes, but your range scale is then 50 miles. This UNAMBIGUOUSLY will assure that if I am ALSO looking at the same CENTER COORDINATES and RANGE SCALE of 50 miles that I will also see everything that you are seeing in that same area.

> For that matter, I just might even have multiple map windows (with
> several open and visible at the same time).

Fine. Each "view" still has center coordinates and a range scale.

> It seems to me that this statement is a hang-up on the idea of military
> tactical map display. I argue that its usefulness is nearly zero for
> real-world ham application of APRS.
> Jim, KA7EHK

If you have an alternate way to communicate "view" scales unambiguously to all users, across all platforms and software types, then please share it with us. Thanks

Bob, wb4apr

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 11 00:14:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA08131
for <lyris.aprsspec@tapr.org>; Thu, 11 May 2000 00:14:57 -0500 (CDT)
Message-ID: <LYR11589-83094-2000.05.11-00.16.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Thu, 11 May 2000 06:15:00 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>

Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Central storm pressure
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <kWM\$SdAUHkG5EwJJ@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

What is the lowest central pressure ever likely to be reached in a severe tropical storm/tornado/hurricane etc? I have no idea. 800 mbar? 700? 600? Lower yet?

Is there any point in expressing it to the nearest 0.1 mbar?

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                               |                          |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:         http://www.netro.co.uk/aprs.htm      |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 11 00:22:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA08396
for <lyris.aprsspec@tapr.org>; Thu, 11 May 2000 00:22:19 -0500 (CDT)
Message-Id: <LYR11589-83098-2000.05.11-00.23.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 10 May 2000 22:22:02 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: A Question about Map View and Range Scale

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130301b53ff25fc514@[198.106.196.242]>
<LYR11893-83078-2000.05.11-00.00.17--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Earlier, I posted a "rant" about Map Center and Range Scale. I offered the the example of a view encompassing a large portion of I-80 in the West. It shows perhaps 100mi N/S and 1000mi E/W.

Now, someone else can have the same range scale (50 mi) and the same center, but have an E-W extent of only 200 mi. Clearly, the two views do not show the same information!

Bob responded:

>
>Yes, but your range scale is then 50 miles. This UNAMBIGUOUSLY will
>assure that if I am ALSO looking at the same CENTER COORDINATES and RANGE
>SCALE of 50 miles that I will also see everything that you are seeing in
>that same area.
>

Yes, but having the same Center Coord and Range Scale does not mean that you and I can see the same thing.

Bob further responded:

>
>If you have an alternate way to comunicate "view" cales unambiguously to
>all users, across all platforms and software types, then please share
>it with us. Thanks
>
>Bob, wb4apr
>
>

There simply is NOT enough information.

One of the following will work:

(1) Center Coord + N/S extent PLUS E/W extent

or

(2) N. Boundary, S Boundary, E. Boundary, and West Boundary

or

(3) anything else which is translatable into a specification of the four edges of the view.

Sincerely,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 11 05:22:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA25714
for <lyris.aprsspec@tapr.org>; Thu, 11 May 2000 05:22:04 -0500 (CDT)
Message-ID: <LYR11589-83139-2000.05.11-05.23.38--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Central storm pressure
Date: Thu, 11 May 2000 10:21:33 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <007a01bfbb32\$aeadd11c0\$fc984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All-

From Chris Landsea;s Hurricane FAQ-
Typhoon Tip in the Northwest Pacific Ocean on 12 October 1979 was measured to have a central pressure of 870 mb and estimated surface sustained winds of 85 m/s (165 kt, 190 mph).

No reason to have tenths of millibars- it is not reported that way- for programming - and using 3 digits-
below 500 needs to have a "1" added to the beginning for display- above 500 to 999 - just display1

For example 010 would be displayed "1010"
957 would be displayed "957"

73 de kg5qd Dale

>What is the lowest central pressure ever likely to be reached in a
>severe tropical storm/tornado/hurricane etc? I have no idea. 800 mbar?
>700? 600? Lower yet?
>
>Is there any point in expressing it to the nearest 0.1 mbar?
>
>73
>Ian, G3NRW

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 11 07:40:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA29884
for <lyris.aprsspec@tapr.org>; Thu, 11 May 2000 07:40:51 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 11 May 2000 08:40:15 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Re: A Question about Map View and Range Scale
In-Reply-To: <20000511041707.16730.qmail@web906.mail.yahoo.com>
Message-ID: <LYR11589-83154-2000.05.11-07.42.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005110823250.26974-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 10 May 2000, James Wagner wrote:

> I posited a very wide (1000mi) but short map (100 mi) ... and I
> suggested that Range Scale would provide very little information in this
> case.
>
> Bob responded:
> >
> > Yes, but your range scale is then 50 miles. This UNAMBIGUOUSLY will
> > assure that if I am ALSO looking at the same CENTER COORDINATES and
> > RANGE SCALE of 50 miles that I will also see everything that you are
> > seeing in that same [centered] area.
>
> Ahh, but someone else can have the same Range Scale and Center Coords
> and have an E/W extent of only 200 mi. That person will never see 800
> miles of your map, yet they will have the same Center Coords and Range
> Scale.

No you are confusing the term range scale. You may be looking at a LONG flat horizontal view and I may be looking at a TALL skinny view, but there is absolutely no ambiguity possible in our definition of range scale. That is "the largest circle that will fit in the view." That was always my definition. As written in the spec, we used the distance from the center of the view to the top or bottom, but in the examples you have raised, I think it would be better if we went back to this fundamental definition.

Something like:

"Range Scale is the radius of the largest circle that will "conviently" fit on the map view"... This way you may have the long flat and the tall skinny views if you like...

> To me, this is less than useful. >
> I then made the following statement:
>
> > > It seems to me that this statement is a hang-up on the idea of
> > > military tactical map display. I argue that its usefulness is nearly
> > > zero for real-world ham application of APRS.
> > > Jim, KA7EHK
> >
> To which Bob responded:
>
> > If you have an alternate way to communicate "view" scales unambiguously
> > to all users, across all platforms and software types, then please
> > share it with us. Thanks
> > Bob, wb4apr
>
> I add
>
> You really need one of the following:
> Center Coords and N/S Range PLUS E/W Range
>
> OR
>
> East boundary, West boundary, North boundry, South Boundary
>
> OR
>
> Any other measure which defines all 4 edges of the View.

Yes, that would be absolutely correct, but absurd to use in voice communications. I am trying to define a consistent but "brief" means for human communication. By voice I say "go to X/Y at the Z range scale." What could be simpler.

As long as that is the standard, then I do not object to the option of saying "I am viewing X/Y with a N/S range scale of A and an east west range scale of B". This is perfectly acceptable... As long as the single value is the understandable default.

de WB4APR, BOB

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 11 10:41:54 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA08203
for <lyris.aprsspec@tappr.org>; Thu, 11 May 2000 10:41:51 -0500 (CDT)
Message-ID: <LYR11589-83188-2000.05.11-10.43.26--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Thu, 11 May 2000 08:41:44 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] The Point about Range Scale
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <20000511154144.20558.qmail@web903.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Group -

Here is my point:

I have a view that has a N/S extent of 100 miles and an E/W extent of 1000 miles. The Range Scale is 50 miles. The center is Cheyenne, WYO.

My buddy Fred has a view (with the same center) with a N/S extent of 100 miles and E/W extent of 100 miles. His Range Scale is 50 miles.

I call up Fred on the local voice repeater and say "Freddy, o'l buddy, you see that truck symbol out there, east of Lincoln, Nebraska?"

He can't see it on his view because it does not have the same E/W extent as mine. Range Scale is simply not a SUFFICIENT view descriptor.

Jim Wagner,
KA7EHK

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.
<http://im.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 11 16:26:17 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22557
for <lyris.aprsspec@tapr.org>; Thu, 11 May 2000 16:26:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 11 May 2000 17:25:49 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: The Point about Range Scale
In-Reply-To: <LYR11586-83188-2000.05.11-10.43.26--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-83242-2000.05.11-16.27.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10005111719050.10268-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 11 May 2000, James Wagner Further attempts his point:

>
> I have a view that has a N/S extent of 100 miles and an E/W extent of
> 1000 miles. The Range Scale is 50 miles. The center is Cheyenne, WYO.
> My buddy Fred has a view (with the same center) with a N/S extent of
> 100 miles and E/W extent of 100 miles. His Range Scale is 50 miles.
>
> I call up Fred on the local voice repeater and say "Freddy, o'l buddy,
> you see that truck symbol out there, east of Lincoln, Nebraska?"
> He can't see it on his view because it does not have the same E/W
> extent as mine. Range Scale is simply not a SUFFICIENT view descriptor.

PERFECT EXAMPLE! Of how important the concept of CENTER and RANGE are!

- 1) You didnt communicate CENTER to Freddy.
- 2) You didnt communicate RANGE.
- 3) Your example shows exactly how useless on-air discussion

of map views are without these two parameters...

Thanks, I hope you now see how important CENTER and RANGE are to any meaningful communications regarding map views...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 12 01:23:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA18207
for <lyris.aprsspec@tapr.org>; Fri, 12 May 2000 01:23:37 -0500 (CDT)
Message-Id: <LYR11589-83308-2000.05.12-01.25.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 11 May 2000 23:23:17 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] More about Center and Range
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130300b541528923fe@[198.106.196.242]>
<LYR11893-83286-2000.05.12-00.00.05--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Group -

My example omitted one thing, only. It DID say that the two views have the same center and range. {It was by pre-arrangement}.

The example was exactly to show that Center and Range are INSUFFICIENT.

The two views, one 100mi by 1000 mi and the other 100mi by 100 mi. They have exactly the same center and the same range. One sees a drastically different picture of the world than the other.

Another number is needed. You are trying to specify a "rectangular" region on the surface of the globe. You can specify the four corners, the four

edges, or the center plus "range" distances in an orthogonal coordinate system (normally aligned with the lat/lon coordinate system).

Very simply, any thing else is not sufficient.

It is not adequate.

It is incomplete.

Its NOT GOOD ENOUGH!

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 12 07:55:52 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA07977
 for <lyris.aprsspec@tapr.org>; Fri, 12 May 2000 07:55:50 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 12 May 2000 08:55:08 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-83308-2000.05.12-01.25.09--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-83323-2000.05.12-07.57.24--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005120838330.7531-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 11 May 2000, Jim Wagner wrote:

> My example omitted one thing, only. It DID say that the two views have the
> same center and range. (50 miles) {It was by pre-arrangement}.

Then why did you choose to talk about a Truck that was 500 miles away
and 450 miles outside of that "range"? In this case, the center and
range are not insufficient. In this case they were just plain wrong.

> The example was exactly to show that Center and Range are INSUFFICIENT.
>
> The two views, one 100mi by 1000 mi and the other 100mi by 100 mi. They
> have exactly the same center and the same range. One sees a drastically
> different picture of the world than the other.

I disagree. Within the "SAME RANGE". Both see EXACTLY THE SAME VIEW.

> Another number is needed. You are trying to specify a "rectangular" region
> on the surface of the globe. You can specify the four corners, the four
> edges, or the center plus "range" distances in an orthogonal coordinate
> system (normally aligned with the lat/lon coordinate system).

No I am not trying to define a "rectangular region" Look at the
definition (or the way the definition should be written). RANGE is the
approximate size of the largest circle that will fit within the view.
"Range" of a map view is measured from the center outward.

If you want to extend this, then range can easily refer to rectangles if
you want by refereing to a N/S "range" and and East/West "range" if you
like. But a single "range" is the lowest common denominator
that unambiguously gives two separate operators the necessary
information to describe the same field of interest.

RADIO waves go out radially in all directions. They dont go out in boxes.
Radio waves have "range". Distance has "range". Grandma's house is 75
miles away. It is not 50 miles east and 25 miles north.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 12 17:26:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA01650
for <lyris.aprsspec@tapr.org>; Fri, 12 May 2000 17:26:42 -0500 (CDT)
Message-ID: <LYR11589-83420-2000.05.12-17.28.14--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 12 May 2000 15:26:28 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Re: More about Center and Range
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20000512222628.2879.qmail@web901.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Group,

(trimmed)....

> No I am not trying to define a "rectangular region" Look at the
> definition (or the way the definition should be written). RANGE is
> the
> approximate size of the largest circle that will fit within the view.
> "Range" of a map view is measured from the center outward.

>

(trimmed)....

>

>RADIO waves go out radially in all directions. They dont go out in
>boxes.
>Radio waves have "range". Distance has "range". Grandma's house is
75
>miles away. It is not 50 miles east and 25 miles north.

>

(trimmed)...

>

> bob

This definition of Range Scale does not appear in the document.
Anywhere.

With digipeating, it makes little sense to me to confine "range" to some circle defined by direct RF coverage. We commonly see stations (here in Western Oregon) that are 400 miles or more distant (without use of gateway).

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.
<http://im.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 12 21:15:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA08876
for <lyris.aprsspec@tapr.org>; Fri, 12 May 2000 21:15:28 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 12 May 2000 22:15:16 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-83420-2000.05.12-17.28.14--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-83464-2000.05.12-21.17.06--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005122209170.22456-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 12 May 2000, James Wagner wrote:

> > Range is the approximate size of the largest circle that will fit
> > within the view. "Range" is measured from the center outward.

> This definition of Range Scale does not appear in the document.
> Anywhere.

I will entertain the change as noted below:

APRS is a tactical geographical system, and users need to be able to
relate map view in a non-ambiguous way. Thus all map displays should
have a meaningful legend to convey the scale of the map view to the
user.

Thus when communicating about such views, three parameters are
required:
the latitude and longitude of the map center and the Range Scale.

In this context, the Range Scale is the approximate range (in nautical
miles, miles or km) from the center of the map to the top or bottom.
This convention gives all software users a common basis for describing
tactical map views (at whatever Range Scale is in use).

=====

CHANGE "map" to "view" and change "top or bottom" to "nearest edges".

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 13 07:16:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11230
for <lyris.aprsspec@tapr.org>; Sat, 13 May 2000 07:16:49 -0500 (CDT)
Message-ID: <LYR11589-83540-2000.05.13-07.18.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 13 May 2000 13:16:45 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: More about Center and Range
References: <LYR14779-83308-2000.05.12-01.25.09--
Ian.Wade#care4free.net@lists.tapr.org>

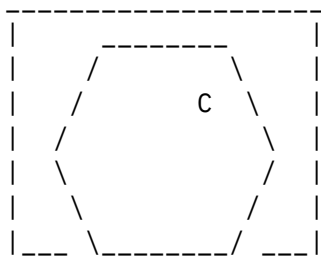
In-Reply-To: <LYR14779-83308-2000.05.12-01.25.09--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <52T4q0AteUH5Ewgs@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-83308-2000.05.12-01.25.09--Ian.Wade#care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

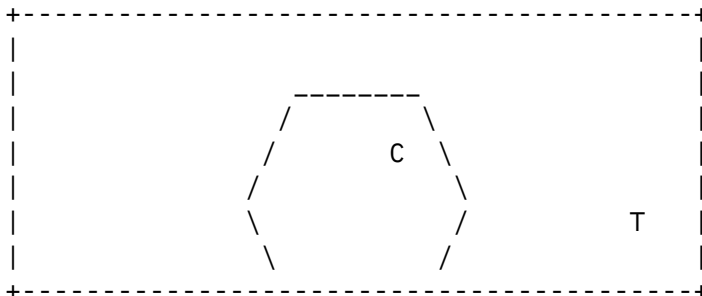
>Another number is needed. You are trying to specify a "rectangular" region
>on the surface of the globe. You can specify the four corners, the four
>edges, or the center plus "range" distances in an orthogonal coordinate
>system (normally aligned with the lat/lon coordinate system).
>
>Very simply, any thing else is not sufficient.
>
>It is not adequate.
>
>It is incomplete.
>
>Its NOT GOOD ENOUGH!

Here is another approach. Consider these two windows, each with exactly the same geographical center and the same range scale. (The range circles are represented by hexagons, as I can't draw circles here). The "C" represents a car, and the "T" represents a truck.

....Bob's Window....



.....Jim's Window.....



Bob and Jim have agreed on the same geographical center and range circle

radius.

Bob says: "Can you see the car, Jim?" Jim says: "Yup"

Jim says: "Can you see the truck, Bob?" Bob says: "Nope!"

In other words, Bob's definition of using "map views" in a non-ambiguous way is only guaranteed to work WITHIN THE RANGE CIRCLE.

~~~~~  
[Does Bob's definition stem from the military perhaps, where screen sizes (and hence views) used to be fixed in an approx 4:3 aspect ratio? This is OK in a full-screen DOS environment, but totally inappropriate in Windows].

A way round this is to change the definition in the spec:

1. Remove completely the concept of "map view". (The "map view" depends on the user's whim in selecting an area to look at -- users can select windows of any size and shape, and can pan/zoom at will within a window).
2. Replace "map view" with "Reference View". The "Reference View" is the area within a range circle of radius R centered at lat/long Y/X.

Users will agree the "Reference View" with each other. They will then have a non-ambiguous understanding of the area they are talking about. (The fact that Jim can also see a truck in his window is irrelevant. If Jim wants Bob to see the truck, he has to increase or re-center his range circle to include the truck, then tell Bob the new "Reference View").

Note that the "Reference View" is the area within the range circle ON THE GROUND, not in the display window.

~~~~~  
Depending on how the user pans and zooms:

1. The "Reference View" need not be centered in the window.
2. The "Reference View" may not even be visible in the window at all.
3. The whole of the "Reference View" may be displayed in the window.
4. Only part of the "Reference View" may be displayed in the window.
5. The boundary of the "Reference View" may or may not touch the upper/lower edge of the window.

The Y/X and R values define the "Reference View" completely and unambiguously.

The "Reference View" is not in any way related to the display window/screen

geometry-- if the range circle happens to touch the top/bottom edges of the window, that is just a coincidence.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                  email: g3nrw@arrl.net                 |
|                                                         |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:         http://www.netro.co.uk/aprs.htm         |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 13 11:42:05 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17929

for <lyris.aprsspec@tapr.org>; Sat, 13 May 2000 11:42:02 -0500 (CDT)

Message-ID: <LYR11589-83573-2000.05.13-11.43.39--

lyris.aprsspec@tapr.org>

From: Bill Diaz <billdiaz@megsinet.net>

Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: More about Center and Range

Date: Sat, 13 May 2000 11:41:28 -0500

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <01BFBCD0.3217C020.billdiaz@megsinet.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Ian,

A method I use to display a view of a map described as Lat, Lon,
and Radius is to create a rectangle :

Upper Left corner = Lon - RadiusInDegrees, Lat - RadiusInDegrees.
Lower right corner = Lon + RadiusInDegrees , Lat + RadiusInDegrees.

This provides rectangle that will contain the ellipse described by
Lat, Lon, and Radius.

As you pointed out, the aspect ratio of the rectangle (ellipse) may
differ from the aspect ratio of the currently displayed map window.
If so, the map view must be scaled to contain the ellipse. It is likely
that the ellipse will touch either the top and bottom, or the sides
but not both. The resulting map view should, at a minimum
contain all objects described by Lat, Lon, radius.

IMO, Lat, Lon, Radius is sufficient information to create the view
intended and no other information is required.

Bill KC9XG

On Saturday, May 13, 2000 7:17 AM, Ian Wade [SMTP:Ian.Wade@care4free.net] wrote:

> In article <LYR14779-83308-2000.05.12-01.25.09--Ian.Wade#care4free.net@list
> s.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>

>

> >Another number is needed. You are trying to specify a "rectangular" region
> >on the surface of the globe. You can specify the four corners, the four
> >edges, or the center plus "range" distances in an orthogonal coordinate
> >system (normally aligned with the lat/lon coordinate system).

> >

> >Very simply, any thing else is not sufficient.

> >

> >It is not adequate.

> >

> >It is incomplete.

> >

> >Its NOT GOOD ENOUGH!

>

>

> Here is another approach. Consider these two windows, each with exactly the
> same geographical center and the same range scale. (The range circles are
> represented by hexagons, as I can't draw circles here). The "C" represents
> a car, and the "T" represents a truck.

>

>

>Bob's Window....

> -----

> |-----|

> | /-----\ |

> | / C \ |

> |-----|

.....Jim's Window.....

+-----+

|-----|

| /-----\ |

| / T \ |

|-----|

> 5. The boundary of the "Reference View" may or may not touch the
> upper/lower edge of the window.
>
> The Y/X and R values define the "Reference View" completely and
> unambiguously.
>
> The "Reference View" is not in any way related to the display window/screen
> geometry-- if the range circle happens to touch the top/bottom edges of the
> window, that is just a coincidence.
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: <http://www.tapr.org/tapr/html/Faprswg.html> |
> | APRS DECODER: <http://www.netro.co.uk/aprs.htm> |
> +-----+
>
> ---
> You are currently subscribed to aprsspec as: billdiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 13 13:59:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA22729
for <lyris.aprsspec@tapr.org>; Sat, 13 May 2000 13:59:06 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-83605-2000.05.13-14.00.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 13 May 2000 15:00:32 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Developers: NEMA simulator
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <391DA650.255CA16C@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ran across a freeware program that simulates a NEMA data stream, and thought it might be of use to some on the list. You can see it at:

<http://www.sailsoft.nl/software2.htm>

-Jeff wb8wka

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 13 23:37:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA14560
for <lyris.aprsspec@tapr.org>; Sat, 13 May 2000 23:37:53 -0500 (CDT)
Message-Id: <LYR11589-83698-2000.05.13-23.39.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 13 May 2000 21:37:37 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Still more about Center and Range
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130300b543d71ce02b@[198.106.198.41]>
<LYR11893-83484-2000.05.13-00.00.16--wagnerj@proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Group -

I don't think that I am getting through!

The spec says (and Bob seems to concur) the following:

APRS is a tactical geographical system, and users need to be able to relate map view in a non-ambiguous way. Thus all map displays should have a meaningful legend to convey the scale of the map view to the user.

When one user has a view that encompasses 100mi X 800 mi and another has a view that encompasses 100mi X 100mi, they have, by the definition Bob has been presenting, the same Range.

I assert that this is the very opposite of a "non-ambiguous way". Even the change to "nearest edges" does not solve it. Consider one user with a view 100mi (N/S) X 800mi (E/W) and the second with a view 800mi N/S and 100mi E/W. These users have the same Range but see vastly different information.

Why the hangup with a "circle"? We are not dealing with artillery or rockets or torpedos. We are not confining ourselves to non-digipeated signals. It takes only one more number conveyed to provide a full, unambiguous description. Why is this a problem?

Why not do what the statement asserts: "able to relate map views in an unambiguous way". Anything other than four coordinates of your choice simply does not give an unambiguous description of a view. And any four, in an orthogonal coordinate system, are translatable to any other four. Lets face up to the world of real-world geometry and quit trying to cut corners. Why is one more number such a problem?

I can see only two ways for Bob's three-quantity description to be sufficient:

(1) There is a region marked out on the view which says "this is the region visible by others who have the same Range you have."

(2) Force views to be (geographically) "square".

I, as a user and programmer, will not accept the second. The first is nearly trivial but is a pain in the rear to have to do when its not necessary and when (almost) nobody else does it.

Very sincerely,
Jim Wagner, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 00:32:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA21985
 for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 00:32:56 -0500 (CDT)
Message-Id: <LYR11589-83725-2000.05.14-00.34.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 13 May 2000 22:31:57 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Reference View
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130302b543ea3b6072@[206.163.154.48]>
 <LYR11893-83705-2000.05.14-00.00.14--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Group -

I like Ian's suggestion of a "Reference View".

However, I am still really puzzled about this business of trying to save
one coordinate which would completely specify a rectangular view of any
aspect ratio.

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 01:03:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA22790
 for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 01:03:06 -0500 (CDT)
Message-Id: <LYR11589-83730-2000.05.14-01.04.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Sat, 13 May 2000 23:01:00 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11639-83540-2000.05.13-07.18.20--ke6afe#arrrl.net@lists.
tapr.org>
References: <LYR14779-83308-2000.05.12-01.25.09--
Ian.Wade#care4free.net@lists.tapr.org>
 <LYR14779-83308-2000.05.12-01.25.09--Ian.Wade#care4free.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.1.2.20000513225125.00c1c8f0@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 05:16 AM 5/13/2000, Ian Wade wrote:

><snip>

>A way round this is to change the definition in the spec:

>

>1. Remove completely the concept of "map view". (The "map view" depends on
>the user's whim in selecting an area to look at -- users can select windows
>of any size and shape, and can pan/zoom at will within a window).

>
>2. Replace "map view" with "Reference View". The "Reference View" is the
>area within a range circle of radius R centered at lat/long Y/X.
>
>Users will agree the "Reference View" with each other. They will then have
>a non-ambiguous understanding of the area they are talking about. (The fact
>that Jim can also see a truck in his window is irrelevant. If Jim wants Bob
>to see the truck, he has to increase or re-center his range circle to
>include the truck, then tell Bob the new "Reference View").
<snip>

An elegant solution! Bravo!

73, Cap KE6AFE

P.S. I'm hoping to soon buy a monitor with a triangular screen. I should
still be able to share Reference Views with it though. hi hi

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]

email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>

packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 03:39:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA06457
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 03:39:18 -0500 (CDT)
Message-ID: <LYR11589-83747-2000.05.14-03.40.59--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 14 May 2000 08:39:47 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Still more about Center and Range
References: <LYR14779-83698-2000.05.13-23.39.33--
Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-83698-2000.05.13-23.39.33--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <FnYneAADh1H5EwWZ@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-83698-2000.05.13-23.39.33--Ian.Wade#care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>Group -

>

>I don't think that I am getting through!

>

>The spec says (and Bob seems to concur) the following:

>

>-----

>APRS is a tactical geographical system, and users need to be able to
>relate map view in a non-ambiguous way. Thus all map displays should
>have a meaningful legend to convey the scale of the map view to the
>user.

>-----

>

>When one user has a view that encompasses 100mi X 800 mi and another has a
>view that encompasses 100mi X 100mi, they have, by the definition Bob has
>been presenting, the same Range.

As I said yesterday, I think this definition is wrong.

>

>I assert that this is the very opposite of a "non-ambiguous way". Even the
>change to "nearest edges" does not solve it. Consider one user with a view
>100mi (N/S) X 800mi (E/W) and the second with a view 800mi N/S and 100mi
>E/W. These users have the same Range but see vastly different information.

Agreed, Jim. I think the basic problem here is distinguishing between a
display view (i.e. what is visible in a window on the screen) and the
on-the-ground view.

Specifying a display view is meaningless. Anybody can choose any
size/shape for their window, and can pan/zoom in that window to any
extent. What is visible in that view is totally at the whim of the user,
can change from instant to instant, and cannot be communicated in any
useful way to any other user.

Specifying an on-the-ground view is simple, unique and unambiguous: e.g.
Y/X and R. Everyone is referring to the same piece of ground. How they
choose to display that piece of ground is an entirely separate matter,
but it's still the same piece of ground. The on-the-ground view has

nothing to do with whether a circle (or rectangle) touches the top/bottom of the window.

>
>Why the hangup with a "circle"? We are not dealing with artillery or
>rockets or torpedos. We are not confining ourselves to non-digipeated
>signals. It takes only one more number conveyed to provide a full,
>unambiguous description. Why is this a problem?
>
>Why not do what the statement asserts: "able to relate map views in an
>unambiguous way". Anything other than four coordinates of your choice simply
>does not give an unambiguous description of a view. And any four, in an
>orthogonal coordinate system, are translatable to any other four. Lets face
>up to the world of real-world geometry and quit trying to cut corners. Why
>is one more number such a problem?
>

Specifying a rectangular on-the-ground view with 4 parameters is not a fundamental problem; e.g. center Y/X, Y offset from the center (equivalent to the radius of Bob's range circle) and X offset from the center. The only difficulty today is that the spec describes the *current* APRS state, and current APRS software (as far as I know) does not support a 4-parameter definition of "map view".

>I can see only two ways for Bob's three-quantity description to be sufficient:
>
>(1) There is a region marked out on the view which says "this is the region
>visible by others who have the same Range you have."

i.e. the region INSIDE the range CIRCLE.

>
>(2) Force views to be (geographically) "square".

I don't think anyone ever intended that.

To re-focus:

All of this discussion relates to a section in the "APRS Design Philosophy" chapter of the specification. This is not the place for specifics on how a "map view" is defined or represented.

The only thing that is important in this section is the idea of common agreement between users on defining a particular piece of ground. How that piece is defined is an *operational* issue. Whether it is a circle, rectangle, ellipse or polygon is outside the scope of the on-the-air APRS spec -- nothing is transmitted on-air that defines the piece of ground.

Accordingly, I propose the following as a replacement for the existing "Map Views and Range Scale" section:

~~~~~  
Viewing Geographical Areas of Common Interest  
=====

APRS is a tactical geographical system. To maximize its operational effectiveness, users need to have an unambiguous understanding of geographical areas of common interest when communicating with each other.

This means that users need to be able to specify the extent of such areas (for example, inside a circle of particular radius centered on a particular lat/long position, or inside a rectangle with particular corner lat/long coordinates). Once a user has specified a geographical extent, other users viewing the same extent can be sure they are looking at exactly the same geographical area.

The method of defining geographical extents is an operational issue, outside the scope of this APRS Protocol Reference -- nothing related to extents is transmitted on-air. However, it is expected that APRS user software will provide easy-to-use tools for defining and viewing extents, and that operational procedures for communicating those extents to other users will be put in place.

~~~~~  
How does that look?

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                                         |
| APRS PROTOCOL SPEC:  http://www.tapir.org/tapir/html/Faprswg.html |
+-----+
```


| APRS DECODER: <http://www.netro.co.uk/aprs.htm> |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 04:18:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA07246
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 04:18:05 -0500 (CDT)
Message-ID: <LYR11589-83751-2000.05.14-04.19.41--
lyris.aprsspec@tapr.org>
Date: Sun, 14 May 2000 10:15:54 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Reference View
References: <LYR14779-83725-2000.05.14-00.34.20--
Ian.Wade@care4free.net>
In-Reply-To: <LYR14779-83725-2000.05.14-00.34.20--
Ian.Wade@care4free.net>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <e0qR6EAK7mH5Ew1N@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-83725-2000.05.14-00.34.20--Ian.Wade@care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes
>Group -
>
>I like Ian's suggestion of a "Reference View".
>

Except that I now want to withdraw that suggestion, for two reasons:

1. Looking back through Jim's earlier messages in this discussion, I am now more firmly of the view <groan> that the word "view" should only apply to what you see in a display window -- "this is my view of this piece of ground, and I can pan/zoom/change the window any way I want to get a completely different view of the same piece of ground". In other words, the word "view" is irrelevant to this discussion (and therefore

irrelevant to the spec).

2. By suggesting the specific term "Reference View", I am imposing a definition on something that is not directly to do with this specification, but will possibly be defined in *other* specifications. I don't have the right to do that.

In another message today I proposed new text which includes the words "geographical extent". I think that overcomes the 2 objections above.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 05:00:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA08087
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 05:00:23 -0500 (CDT)
Message-Id: <LYR11589-83756-2000.05.14-05.02.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Sun, 14 May 2000 02:58:21 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11639-83540-2000.05.13-07.18.20--ke6afe#arrl.net@lists.
tapr.org>
References: <LYR14779-83308-2000.05.12-01.25.09--
Ian.Wade#care4free.net@lists.tapr.org>
<LYR14779-83308-2000.05.12-01.25.09--Ian.Wade#care4free.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.1.2.20000514020710.00b7eb00@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 05:16 AM 5/13/2000, Ian Wade wrote:

><snip>
>The Y/X and R values define the "Reference View" completely and
>unambiguously.
>
>The "Reference View" is not in any way related to the display window/screen
>geometry-- if the range circle happens to touch the top/bottom edges of the
>window, that is just a coincidence.
<snip>

At 10:31 PM 5/13/2000, Jim Wagner wrote:

>Group -
>
>I like Ian's suggestion of a "Reference View".
<snip>

At 02:15 AM 5/14/2000, Ian Wade wrote:

<snip>
>Except that I now want to withdraw that suggestion, for two reasons:
>
>1.<snip>
>2.<snip>
>
>In another message today I proposed new text which includes the words
>"geographical extent". I think that overcomes the 2 objections above.

Now I'd like to venture:

Viewing Geographical Areas of Common Interest

=====

APRS is a tactical geographical system. To maximize its operational effectiveness, users need to have an unambiguous understanding of geographical areas of common interest when communicating with each other.

This means that users need to be able to specify the extent of such areas. For example, the area inside a circle of particular radius centered on a particular lat/long position could be specified. When communicating about this circular area's extent, three parameters would be required:

- 1 the latitude of the center of the area
- 2 the longitude of the center of the area
- 3 the horizontal distance from the center to the perimeter of the circle.

Once a user has specified a geographical extent, other users viewing the same extent can be sure they are looking at exactly the same geographical area.

The method of defining geographical extents is an operational issue, outside the scope of this APRS Protocol Reference -- nothing related to extents is transmitted on-air. However, it is expected that APRS user software will provide easy-to-use tools for defining and viewing extents, and that operational procedures for communicating those extents to other users will be put in place.

73, Cap KE6AFE

--

Cap Pennell
Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 10:59:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA18103
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 10:59:20 -0500 (CDT)
Message-ID: <LYR11589-83802-2000.05.14-11.00.59--
lyris.aprsspec@tapr.org>
Date: Sun, 14 May 2000 23:59:27 -0400
From: Donald Tambeau <ve3hol@rac.ca>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Soundboard Aprs?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <391F761F.8E4B3D05@rac.ca>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Several days ago, some brave soul asked on this list if an APRS sound board program compatible with APRS existed. If anybody answered him I missed it. Sound board programs now read RTTY, PSK31, PACTOR...at least one program I know decodes but does not transmit packet. It would sure would be great to eliminate one piece of gadgetry from the seat of the truck.

As for the present thread on "reference view" "circles view" "map view" "rectangular view" guys, guys....you lost me a long long time ago!

Now if I could only get rid of my TNC, maybe my wife could sit here in the cab instead of back in the box! Hi

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 15:09:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA25629
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 15:09:24 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 14 May 2000 16:08:36 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Still more about Center and Range
In-Reply-To: <LYR11586-83698-2000.05.13-23.39.33--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-83839-2000.05.14-15.11.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005141551200.8568-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 13 May 2000, Jim Wagner wrote:

> for Bob's three-quantity description to be sufficient:
>
> (1) There is a region marked out on the view which says "this is the region
> visible by others who have the same Range you have."
>
> I, as a user and programmer, will not accept the second. The first is
> nearly trivial but is a pain in the rear to have to do when its not
> necessary and when (almost) nobody else does it.

Your claim about "almost nobody" is completey wrong and shows a new-comers bias towards todays shrink-wrapped "maping" packages developed by software programemrs and not by anyone with a background in navigation or radio location. ALL navigation and radio location systems prior to the recent spurt of "MAPS" for "windows" use the concept of "RANGE SCALE". This dates back to 1945 or so. It is technically, sound, it is unambiguous, is familiar to the millions of technicains and operators who have used it throughout these 55 years of use and you will find it on all tactical displays of all RADAR and NAVIGATION systems both military, commercial, Avaiation, and pleasure boats.

RANGE SCALE is a fundamental concept regardless of how distorted some programmers want to display their map views. That is why it is in the APRS spec, to simply serve as a simplest form description so that everyone has an unambiguous reference frame. How you convey it to your users is up to you. Several methods are in use:

- 1) Range circle
- 2) Legend bar across bottom or side equal in length to "range scale"
- 3) Numeric display of current "RANGE SCALE" somewhere on screen.

etc

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 16:28:55 2000

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id QAA28724
for <lyris.aprsspec@tapir.org>; Sun, 14 May 2000 16:28:51 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 14 May 2000 17:28:37 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-83464-2000.05.12-21.17.06--
bruninga@nadn.navy.mil@lists.tapir.org>
Message-ID: <LYR11589-83860-2000.05.14-16.30.31--
lyris.aprsspec@tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <Pine.GSO.4.05L.10005141652190.8568-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Ian's definition of a "reference view" (later withdrawn) has come full circle back to square one. The "term" you are looking for to describe this unambiguous "map/view/reference/geographical area, ETC) is "RANGE SCALE". This is a fundamental descriptor with over 50 years of precedence and common usage.

But Jim's interpretations have pointed out that it did not come across to the reader as clearly as it could have. Thus, I have only slightly re-worded this paragraph to take advantage of all the recent discussion and to hopefully make this concept clear.

> -----
> APRS is a tactical geographical system, and users need to be able to
> relate map view in a non-ambiguous way. Thus all map displays should
> have a meaningful legend to convey the "range scale" of the map view to
> the user.
>
> Thus when communicating about such views, two parameters are
> required: CENTER and RANGE SCALE.
>
> In this context, the Range Scale of any map view is the approximate
> range (in nautical miles, statute miles or km) of the largest circle
> that will conveniently fit in that map view. This convention gives all
> software users a common basis for describing tactical map views (at

> whatever Range Scale or center is in use).

> =====

Notice that I changed from LAT/LONG to just CENTER. What one uses to reference the center of a view does not need to be so restrictive.

I can say "Im looking at a range scale of 128 miles around Florence Alabama, and I dont see him anywhere". Or "Im looking around me at 16 miles and cant find him"... In these cases, the "center" is defined in terms other than LAT/LONG.

Also, for your background, Range Scales have always traditionally been integer powers of 2. Usually from about 0.25 miles out to 256 miles. In the 1960's with the advent of computer driven tactical displays including networked target data from other platforms this was extended to 1024 miles. With the worldwide nature of APRS, APRSdos extends that down to .0625 and up to 8192 miles.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 18:21:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA02969
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 18:21:45 -0500 (CDT)
Message-ID: <LYR11589-83872-2000.05.14-18.23.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Neil Johnson" <njohnson@interl.net>
From: "Neil Johnson" <njohnson@interl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
Date: Sun, 14 May 2000 18:21:28 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3612.1700
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <026c01bfbdfb\$227076e0\$0100a8c0@nandts>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I'm confused here, I think using the range circle makes perfect sense.

The problem with the rectangle is it assumes that there is a difference in the X and Y scales.

I don't think that is right. When I look at a map 1 inch (1 cm, whatever) equals 1 mile (1 km) IN ANY DIRECTION.

To me changing the x or y scaling independent of each other would lead to confusion over distances (that wonderful map projection stuff notwithstanding).

I've noticed that the map window in Street Atlas works this way. When you resize the map window it change the area of the map viewed, not changing the scale (SA puts a little bar "|-----|" = 1.0 mile in the status bar of the map window).

Neil Johnson
njohnson@interl.net
<http://www.interl.net/~njohnson>

-----Original Message-----

From: Bob Bruninga <bruninga@nadn.navy.mil>
To: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Date: Sunday, May 14, 2000 4:28 PM
Subject: [aprsspec] Re: More about Center and Range

>Ian's definition of a "reference view" (later withdrawn) has come full
>circle back to square one. The "term" you are looking for to describe
>this unambiguous "map/view/reference/geographical area, ETC) is "RANGE
>SCALE". This is a fundamental descriptor with over 50 years of
>precedence and common usage.

>

>But Jim's interpretations have pointed out that it did not come across to
>the reader as clearly as it could have. Thus, I have only slightly
>re-worded this paragraph to take advantage of all the recent discussion
>and to hopefully make this concept clear.

>

```
>> -----
>> APRS is a tactical geographical system, and users need to be able to
>> relate map view in a non-ambiguous way. Thus all map displays should
>> have a meaningful legend to convey the "range scale" of the map view to
>> the user.
>>
>> Thus when communicating about such views, two parameters are
>> required:  CENTER and RANGE SCALE.
>>
>> In this context, the Range Scale of any map view is the approximate
>> range (in nautical miles, statute miles or km) of the largest circle
>> that will conveniently fit in that map view. This convention gives all
>> software users a common basis for describing tactical map views (at
>> whatever Range Scale or center is in use).
>> =====
>
>Notice that I changed from LAT/LONG to just CENTER.  What one uses to
>reference the center of a view does not need to be so restrictive.
>
>I can say "Im looking at a range scale of 128 miles around Florence
>Alabama, and I dont see him anywhere".  Or "Im looking around me at 16
>miles and cant find him"...  In these cases, the "center" is defined in
>terms other than LAT/LONG.
>
>Also, for your background, Range Scales have always traditionally been
>integer powers of 2.  Usually from about 0.25 miles out to 256 miles.  In
>the 1960's with the advent of computer driven tactical displays including
>networked target data from other platforms this was extended to 1024
>miles.  With the worldwide nature of APRS, APRSdos extends that down to
>.0625 and up to 8192 miles.
>
>de WB4APR, Bob
>
>
>
>---
```

```
---
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 14 19:18:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA04452
for <lyris.aprsspec@tapr.org>; Sun, 14 May 2000 19:17:57 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 14 May 2000 20:16:53 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <026c01bfdbfb\$227076e0\$0100a8c0@nandts>
Message-ID: <LYR11589-83884-2000.05.14-19.19.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005142006140.11852-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 14 May 2000, Neil Johnson wrote:

> I've noticed that the map window in Street Atlas works this way. When you
> resize the map window it changes the area of the map viewed, not
> changing the scale (SA puts a little bar "|-----|" = 1.0 mile in
> the status bar of the map window).

Yep, and the smaller that gets the harder it is to estimate distances
across the full map screen. When that little legend is only 1/4 inch long
on a 12 inch screen, it is very hard to estimate things like "looks like
"x" is about 28 miles from me"...

Whereas if you are on the 32 mile RANGE SCALE and the guy is near the
edge, then it is far easier to estimate "28" miles without a ruler...
Thats why I put a RANGE SCALE Legend like this at the bottom of all
APRSdos map views:

|<-----32 statute miles----->|

Which always extends from the center to the right edge of the Range Scale
circle. In this case, I am on the 32 mile range scale. If I have
selected METRIC, then this is shown as:

|<----- 51 Killometers ----->|

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 00:10:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA21789
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 00:10:38 -0500 (CDT)
Message-ID: <LYR11589-83940-2000.05.15-00.12.23--
lyris.aprsspec@tapr.org>
Reply-To: "Tj Johnston" <n4uyq@arrl.net>
From: "Tj Johnston" <n4uyq@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Draft 1.01m Notes
Date: Mon, 15 May 2000 01:10:17 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <005801bfbe2b\$dcd85720\$1b75f7a5@tjjohnstonmindspring.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

page 14: Version numbers - Should we also include Alinco, as in APAXxx??? Their
new radio has a tnc built in and claims to support
APRS, but to what extent, I don't know.

=====
Tj Johnston, N4UYQ ICQ#3134626
Hopewell, VA - Prince George Co. ARES/RACES
Eastern Virginia APRS Group (EVA) - Sec/Treas.
EVA Homepage: <http://www.qsl.net/eva/>
APRSdigi Homepage: www.qsl.net/n4uyq/aprsdigi.htm
=====

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 01:40:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA24089
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 01:40:48 -0500 (CDT)
Message-Id: <LYR11589-83951-2000.05.15-01.42.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 14 May 2000 23:39:53 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] A Suggestion
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130300b5454a7aa85b@[206.163.154.48]>
<LYR11893-83924-2000.05.15-00.00.07--wagnerj@proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello Group -

I think what we have here is fundamentally divergent view of technology. I, frankly, could care less what X years of "tradition" has used to describe something, when it does not fit how modern people actually wish to use something.

So, I am willing to put this to rest. I see no resolution.

But, I do have a suggestion for the next rev of APRS standard:

A message format (perhaps as a group "announcement" or "bulletin" - so it can be suitably filtered) containing the necessary coordinates to fully describe a standard "group view". This could contain any set of four coordinates and any member of the group could choose this to automatically set the bounds of their "group view".

This would solve many of the tactical problems which I think Bob is attempting to address. It could be cross-map and cross-application and

cross-platform (provided the programmers supported it); there is no fundamental reason I can see why it could not.

Cheers,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 01:48:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA24266
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 01:48:45 -0500 (CDT)
Message-ID: <LYR11589-83952-2000.05.15-01.50.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 15 May 2000 07:48:45 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-83464-2000.05.12-21.17.06--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR14779-83860-2000.05.14-16.30.31--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-83860-2000.05.14-16.30.31--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Tb7ihAAN35H5EwwT@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-83860-2000.05.14-16.30.31--Ian.Wade#care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes
>Ian's definition of a "reference view" (later withdrawn) has come full
>circle back to square one. The "term" you are looking for to describe
>this unambiguous "map/view/reference/geographical area, ETC) is "RANGE
>SCALE". This is a fundamental descriptor with over 50 years of
>precedence and common usage.

I accept that "Range Scale" has been around for a long time, and is associated with a circle that covers a geographical piece of ground.

>
>But Jim's interpretations have pointed out that it did not come across to
>the reader as clearly as it could have.

Jim has said basically that a circle is not the **only** way to define a piece of ground.

> Thus, I have only slightly
>re-worded this paragraph to take advantage of all the recent discussion
>and to hopefully make this concept clear.
>
>> -----
>> APRS is a tactical geographical system, and users need to be able to
>> relate map view in a non-ambiguous way. Thus all map displays should
>> have a meaningful legend to convey the "range scale" of the map view to
>> the user.
>>
>> Thus when communicating about such views, two parameters are
>> required: CENTER and RANGE SCALE.
>>
>> In this context, the Range Scale of any map view is the approximate
>> range (in nautical miles, statute miles or km) of the largest circle
>> that will conveniently fit in that map view. This convention gives all
>> software users a common basis for describing tactical map views (at
>> whatever Range Scale or center is in use).
>> =====

The main thing I don't like about this is the term "map view". A "map view" is simply a "view of a map". As I said yesterday, a user can change that view instant by instant -- views are not fixed as they used to be in radar systems. A "view" relates only to what is seen in a display window (that definition has been around for a long time too), and does not necessarily have any relationship to the "range scale".

Also, you imply that center/range scale is the *only* way to define an area of common interest. Bearing in mind Jim's comments, I think this is too restrictive here, particularly as all of this is an operational issue anyway, not directly related to this spec. Methods of defining areas of common interest belong in another (as yet unwritten) spec.

Hence, merging your thoughts with mine, here is a new replacement section:

~~~~~  
Viewing Geographical Areas of Common Interest

=====

APRS is a tactical geographical system. To maximize its operational effectiveness, users need to have an unambiguous understanding of geographical areas of common interest when communicating with each other.

The usual way of doing this is for users to specify the geographical center and approximate radius of a circle that covers the area of interest. The radius of the circle (in nautical miles, statute miles or km) is known as the "range scale". This convention gives all users a common basis for describing tactical areas of interest, at whatever center/range scale is in use.

The use of center/range scale, or other methods of defining areas of common interest, is an operational issue, outside the scope of this APRS Protocol Reference -- nothing related to these areas is transmitted on-air. However, it is expected that APRS user software will provide easy-to-use tools for defining and viewing these areas, and that operational procedures for communicating them to other users will be put in place.

~~~~~

>
>Notice that I changed from LAT/LONG to just CENTER. What one uses to
>reference the center of a view does not need to be so restrictive.
>
>I can say "Im looking at a range scale of 128 miles around Florence
>Alabama, and I dont see him anywhere". Or "Im looking around me at 16
>miles and cant find him"... In these cases, the "center" is defined in
>terms other than LAT/LONG.

Exactly. That's why I phrased my second para in the new replacement section the way I did.

>

>Also, for your background, Range Scales have always traditionally been
>integer powers of 2. Usually from about 0.25 miles out to 256 miles. In
>the 1960's with the advent of computer driven tactical displays including
>networked target data from other platforms this was extended to 1024
>miles. With the worldwide nature of APRS, APRSdos extends that down to
>.0625 and up to 8192 miles.

OK, but once again this is an operational issue, outside the scope of
this specification.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 01:59:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA24482
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 01:59:24 -0500 (CDT)
Message-ID: <LYR11589-83953-2000.05.15-02.01.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 15 May 2000 07:58:15 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: A Suggestion
References: <LYR14779-83951-2000.05.15-01.42.26--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-83951-2000.05.15-01.42.26--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l4ZfJEAHA6H5EwDC@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-83951-2000.05.15-01.42.26--Ian.Wade#care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>Hello Group -

>

>I think what we have here is fundamentally divergent view of technology. I,
>frankly, could care less what X years of "tradition" has used to describe
>something, when it does not fit how modern people actually wish to use
>something.

>

>So, I am willing to put this to rest. I see no resolution.

But please look at my new suggested text for the replacement section
(mailed to this list Monday morning UTC). I think it encapsulates both
your views and Bob's views in a compatible manner, saying essentially
that center/range scale is just **one** way of doing this, and that
whatever way is used, the whole matter is an operational issue anyway,
outside the scope of this spec.

>

>But, I do have a suggestion for the next rev of APRS standard:

>

>A message format (perhaps as a group "announcement" or "bulletin" - so it
>can be suitably filtered) containing the necessary coordinates to fully
>describe a standard "group view". This could contain any set of four
>coordinates and any member of the group could choose this to automatically
>set the bounds of their "group view".

>

>This would solve many of the tactical problems which I think Bob is
>attempting to address. It could be cross-map and cross-application and
>cross-platform (provided the programmers supported it); there is no
>fundamental reason I can see why it could not.

Agreed.

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 10:43:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA20547
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 10:43:53 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 15 May 2000 11:43:40 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-83952-2000.05.15-01.50.27--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84041-2000.05.15-10.45.36--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005151117270.13834-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 15 May 2000, Ian Wade wrote:

```
> I accept that "Range Scale" has been around for a long time, and is
> associated with a circle that covers a geographical piece of ground.
> Jim has said basically that a circle is not the *only* way to define a
> piece of ground.
```

True, but the APRS SPEC is defining the standard for APRS. As such, APRS needs a standard default way of referring to that common area. And that is RANGE SCALE. Anyone that has been following this discussion sees how absolutely confusing, and ambiguous these discussions can be unless everyone has a common reference. That is the purpose of the APRS SPEC.

Have any of you ever listened to the confusion that reigns as soon as users begin trying to talk about a geographical area, when one is using WinAPRS, one is using APRS+SA, and one is using APRSdos? Its babble. And NO RESOLUTION IS REACHED. They just Argue, each clinging to his own view! WE CANNOT ALLOW THIS TO HAPPEN WHEN APRS IS SUPPOSED TO PROVIDE A STANDARD FOR TACTICAL COMMUNICATION.

This discussion of Rectangles and views is exactly why we must have a single default reference. And it MUST be in the SPEC. Ian's proposed wording is too watered down and will not accomplish the objective. I have revised Ian's proposed wording to meet these objectives.

```
> COMMUNICATING Geographical Areas of Common Interest
> =====
> APRS is a tactical geographical system. To maximize its operational
> effectiveness, users need to have an unambiguous understanding of
> geographical areas of common interest when communicating with each
> other.
>
> In APRS, this is done by reference to a CENTER and RANGE. These
> specify the geographical center and approximate radius of a circle that
> covers the area of interest. The radius of the circle (in nautical
> miles, statute miles or km) is known as the "range scale". This
> convention gives all users a simple common basis for describing tactical
> areas of interest, at whatever center/range scale is in use.
>
> For interoperability among all platforms and modes of communications, it
> is expected that APRS user software will provide easy-to-use tools for
> defining and viewing these areas of tactical interest.
> ~~~~~
```

If Jim wants to propose that users in the future may refer to the 4 corners of an area, that is OK for later versions, but I doubt any voice users are going to say...

"Im looking at a box with the following corners of LAT/LONG and LAT/LONG and LAT/LONG and LAT/LONG and I dont see the truck anywhere.."

Compared to "Im looking out 32 miles from me and dont see him"...

Or "Does anyone see an Ambulance within 10 miles of the fairground???"

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 11:08:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21811
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 11:08:37 -0500 (CDT)
Message-ID: <LYR11589-84048-2000.05.15-11.10.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 15 May 2000 17:07:42 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-83952-2000.05.15-01.50.27--
bruninga@nadn.navy.mil@lists.tapr.org>
<Pine.GS0.4.05L.10005151117270.13834-1000000@arctic>
In-Reply-To: <Pine.GS0.4.05L.10005151117270.13834-1000000@arctic>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <nQ0fTDA0DCI5EwYp@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <Pine.GS0.4.05L.10005151117270.13834-1000000@arctic>, Bob
Bruninga <bruninga@nadn.navy.mil> writes

>I have
>revised Ian's proposed wording to meet these objectives.
>
>> COMMUNICATING Geographical Areas of Common Interest
>> =====
>> APRS is a tactical geographical system. To maximize its operational
>> effectiveness, users need to have an unambiguous understanding of
>> geographical areas of common interest when communicating with each

```
>> other.
>>
>> In APRS, this is done by reference to a CENTER and RANGE. These
>> specify the geographical center and approximate radius of a circle that
>> covers the area of interest. The radius of the circle (in nautical
>> miles, statute miles or km) is known as the "range scale". This
>> convention gives all users a simple common basis for describing tactical
>> areas of interest, at whatever center/range scale is in use.
>>
>> For interoperability among all platforms and modes of communications, it
>> is expected that APRS user software will provide easy-to-use tools for
>> defining and viewing these areas of tactical interest.
>> ~~~~~
>
```

So be it. I have plugged this into the spec.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 11:22:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA22265
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 11:22:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 15 May 2000 12:21:56 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: A Suggestion

In-Reply-To: <LYR11586-83953-2000.05.15-02.01.06--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84049-2000.05.15-11.23.54--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005151144230.13834-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 15 May 2000, Ian Wade wrote:

> >I think what we have here is fundamentally divergent view of technology.

It has nothing to do with technology. It has to do with human communications in describing their VIEW, INDEPENDENT OF TECHNOLOGY! It is the cross platform / cross medium conveyance of unambiguous information that I am concerned with.

Who have you heard refer to an area on a voice repeater by giving the LAT/LONG of the corners of the box? I have never heard any... But I do hear ALL THE TIME, comments like "He is within 10 miles of there"... etc... Or "I'm 57 miles outside of Denver"...

> >A message format (perhaps as a group "announcement" or "bulletin" - so it
> >can be suitably filtered) containing the necessary coordinates to fully
> >describe a standard "group view". This could contain any set of four
> >coordinates and any member of the group could choose this to automatically
> >set the bounds of their "group view".

This paragraph shows a total misunderstanding of the concepts here. We are NOT TRYING to force a common "group view" AT ALL. That is why I don't like this movement of Ians's to a REFERENCE VIEW nor to a GEOGRAPHICAL AREA. It is diverging from the fundamental concept of being able to describe MY VIEW. And that means my IMMEDIATE, This-Instant view in a SIMPLE and UNAMBIGUOUS WAY.

When I say I am looking at Washington DC on the 128 mile range scale this has NOTHING to do with what anyone else is using, or seeing, or interested in... But it tells *YOU* THE LISTENER, WHAT *I* SEE. This is the concept I am trying to get across. We will all have countless views at ANY INSTANT in time. But every such VIEW must have a way to describe it SUSCINCTLY.

If I say I am looking at Washington DC on the 128 mile RANGE SCALE and Joe is looking at Baltimore on the 64 mile range scale, then anyone with a minds eye can "see" their common areas of coverage...

I dont know anyone that can visualize the common area of two Boxes specified by a total of 8 LAT/LONG pairs. That is rediculuuous and will never be used by voice communicators.

So I am going back to my original definition. That we are talking about a PARAMETER to describe a "VIEW". We may both be interested in the whole state of Maryland duing an STATE emergency, but at any instant, I must be able to say suscinctly and unambiguously where I AM LOOKING and to what SCALE.

There is no other simple method that fulfills this requirement. Period. If we want, I have no objection to allowing differing "N/S and E/W" range scales to describe oblong views if someone finds that useful.

Here is that wording...

```
> -----
> APRS is a tactical geographical system, and users need to be able to
> relate their map view in a non-ambiguous way. Thus all map displays
> should have a meaningful legend to convey the "range scale" of the map
> view to the user.
>
> Thus when communicating about such views, only two parameters are
> needed:  CENTER and RANGE SCALE.
>
> In this context, the Range Scale of any map view is the approximate
> range (in nautical miles, statute miles or km) from the center to
> to the nearest edge. This convention gives all users a common basis
> for describing tactical map views in a suscinct way.
>
> In cases where the user needs to describe a rectangular view in more
> detail, the range scale can be broken into a N/S and an E/W component.
> =====
```

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 11:26:56 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA22382
for <lyris.aprsspec@tappr.org>; Mon, 15 May 2000 11:26:54 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 15 May 2000 12:26:13 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84048-2000.05.15-11.10.03--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84052-2000.05.15-11.28.24--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005151223350.13834-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 15 May 2000, Ian Wade wrote:

```
> >> COMMUNICATING Geographical Areas of Common Interest
> >> =====
> >> ~~~~~
>
> So be it. I have plugged this into the spec.
```

Ah, but now I have renigged. I see now that we are still talking about two different things. SO I am back to describing VIEWS which was my original intent... Sorry... Your logic was clever and lead me off track.... :-)

But now that I see where we have arrived... it ain't where I was headed... so to speak.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 15 12:39:06 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA25422
for <lyris.aprsspec@tappr.org>; Mon, 15 May 2000 12:39:06 -0500 (CDT)
Message-ID: <LYR11589-84069-2000.05.15-12.40.46--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 15 May 2000 18:39:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Why Why do do I I keep keep getting getting messages messages
twice twice ? ?
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4hHIvXABZDI5EwJL@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

This list keeps sending me two copies of some messages.

Can someone fix it please.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tappr.org/tappr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 15 12:39:31 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA25469
for <lyris.aprsspec@tappr.org>; Mon, 15 May 2000 12:39:26 -0500 (CDT)
Message-ID: <LYR11589-84070-2000.05.15-12.41.02--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 15 May 2000 18:34:10 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-84048-2000.05.15-11.10.03--
bruninga#nadm.navy.mil@lists.tappr.org>
<LYR14779-84052-2000.05.15-11.28.24--Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-84052-2000.05.15-11.28.24--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <zRzKj0ASUDI5Ewq6@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-84052-2000.05.15-11.28.24--Ian.Wade#care4free.net@lists.tappr.org>, Bob Bruninga <bruninga#nadm.navy.mil> writes

>Ah, but now I have renigged. I see now that we are still talking about
>two different things. SO I am back to describing VIEWS which was my
>original intent... Sorry... Your logic was clever and lead me off
>track.... :-)

There was certainly no intention of trying to be clever! I just want to remove the confusion that your original version caused.

Problem is, we have now returned to the reason why Jim got confused in the first place. Bottom line: the term "map view" is totally irrelevant, confusing and meaningless in this context.

I look at a map, and decide the center/range scale. I tell you the center/range scale. We now both understand exactly which bit of *ground* we are talking about. That's the object of the exercise.

But I do *not* tell you which bit of your *map* to *view*. Your "map view" is whatever part of your *map* you choose to view. You can

pan/zoom/change your window size at any time to get a different "map view". Your "map view" may not even contain *any* of the bit of ground we agreed on. All of this is a display issue and nothing to do with the spec.

A "view" is what you see in a window. Nothing more. It is *nothing* whatsoever to do with the center/range scale area.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 13:08:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA26598
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 13:07:59 -0500 (CDT)
From: "Rob Wittner" <rmw@rwa-inc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Why Why do do I I keep keep getting getting messages
messages twice twice ? ?
Date: Mon, 15 May 2000 14:08:12 -0400
Message-ID: <LYR11589-84074-2000.05.15-13.09.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11697-84069-2000.05.15-12.40.46--rmw#rwa-inc.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NCBBLCALCLCLLFGBMFCMGEHIDHAA.rmw@rwa-inc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Is Is someone someone perhaps perhaps replying replying directly directly to
to Ian Ian as as well well as as to to the the list list ? ?

-Rob
-Rob

Ian, if you get two of these messages, you'll know the answer...

-----Original Message-----

From: bounce-aprsspec-11697@lists.tapr.org
[mailto:bounce-aprsspec-11697@lists.tapr.org]On Behalf Of Ian Wade
Sent: Monday, May 15, 2000 1:39 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Why Why do do I I keep keep getting getting messages
messages twice twice ? ?

This list keeps sending me two copies of some messages.

Can someone fix it please.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: rmw@rwa-inc.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 14:00:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28253
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 14:00:32 -0500 (CDT)
Message-ID: <LYR11589-84078-2000.05.15-14.02.06--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 15 May 2000 12:00:09 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Re: aprsspec digest: May 14, 2000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20000515190009.11070.qmail@web902.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Group -

With some trepidation, I need to respond to Bob's response of 5-14-00.
I will try, very hard, to avoid assertions about character or
personality. I hope that I am successful! If I am not successful,
please remember that no malice is intended. Here, first, is the
statement that triggered the response:

>> I, as a user and programmer, will not accept the second. The first
is
>> nearly trivial but is a pain in the rear to have to do when its not
>> necessary and when (almost) nobody else does it.

And, here is Bob's response:

>Your claim about "almost nobody" is completey wrong and shows
>a new-comers
>bias towards todays shrink-wrapped "mapping" packages developed by
>software
>programemrs and not by anyone with a background in navigation or radio

>location. ALL navigation and radio location systems prior to the
>recent
>spurt of "MAPS" for "windows" use the concept of "RANGE SCALE". This
>dates back to 1945 or so. It is technically, sound, it is
>unambiguous, is
>familiar to the millions of technicians and operators who have used
it
>throughout these 55 years of use and you will find it on all tactical
>displays of all RADAR and NAVIGATION systems both military,
commercial,
>Aviation, and pleasure boats.

>RANGE SCALE is a fundamental concept regardless of how distorted some
>programmers want to display their map views. That is why it is in the
>APRS spec, to simply serve as a simplest form description so that
>everyone
>has an unambiguous reference frame. How you convey it to your users
>is up to you. Several methods are in use:
>
>1) Range circle
>2) Legend bar across bottom or side equal in length to "range scale"
>3) Numeric display of current "RANGE SCALE" somewhere on screen.

I found this assertion quite incredible.

To provide a "reality check", I surveyed 10 acquaintances. All are map users and use maps in ways in which their life, or the life of someone else, depends on it.

3 are pilots (all private, one IFR), one originally licensed in 1975.
2 mountain rescue volunteers
2 mountain climbers who are not involved in mountain rescue
1 sea kayaker who uses coastal navigation charts
1 mountain biker who leads bike tours in Hawaii
1 County Sheriff's Deputy who works with search and rescue
1 Aquatics Biologist/Ham (who does flood hazard assessment, among other things)
2 4-Wheel Drive search/rescue people (2 hams)
2 Backpackers (1 ham)

[note: this adds to more than 10 because some people fall into several categories]. One is former military (Deputy). Most are under 50 and all are under 60. A few are under 30. Not one of these is among the "millions of technicians and operators" described by Bob.

1. Not one has heard of "Range Scale" associated with a map.
2. Two (other than pilots) have used a compass for navigation purposes.
3. Two have tried to find their location on a paper map using GPS.

4. All know that their "good" maps have lat/lon scale on map edges.
5. When explained, all pilots relate "Range Scale" to OMNI "rose" printed on their nav charts. But, when confronted with the idea that "Range Scale" somehow described the size, extent, etc, of a map, all responded with a "blank" and/or "What good is it?"
6. Not one of the pilots has flown an aircraft with a Range-Scale display in the cockpit. Single-engine private aircraft don't usually carry RADAR.
7. One non-pilot, when prodded, did associate it with a circular RADAR display.
8. All are computer users.
9. Several were experienced DOS users but not one willingly uses it now.
10. When asked about software to view "maps" on a computer screen, all preferred a windows-oriented environment where they could have other windows from other applications present, allowing them, for example, to record notes related to the situation at hand.

Folks, these are the real-world people who we have to work with in real-world emergencies. These are also representative, I believe, of most new-comers to ham radio, and thus, fairly representative of in-coming APRS users. To think otherwise, it seems to me, leads us only down the path of narcissism. Do we really want to develop yet another tool which has little real-world use and is thus, hardly more than a toy for our ham amusement.

The (repeated here) assertion:

```
>shows a new-comers  
>bias towards todays shrink-wrapped "mapping" packages developed by  
>software programers and not by anyone with a background in navigation  
>or radio location.
```

is a real key to this discussion. People use mapping packages developed by software programmers (who else would develop the packages?) because they are easy to use. Yes, they are "biased"; they LIKE the software and they use what they like! To decry this situation is rather like decrying the lack of use of CW. It fails to recognize changes in technology and changes in the technology user-base. If we do not recognize this situation and fail to cope with maps "that can be stretched every which way", then APRS will go the way of other technologies which "were promising but never made it".

I, personally, DO have a background in navigation. But not military. My navigation is as a private pilot, mountain climber, & sometimes orienteer. To me, the idea of "Range Scale" is simply useless because it does not fit what people want to do with their tools.

To press the analogy, over 55 years of experience showed that tires needed inner tubes. Several hundred years of experience showed that wheels needed steel rims. Many years of experience showed that frequencies "down" from 2000 meters were useless. Lets not get caught up in the arguments about "what has been used for 55 years"!

To force the APRS display into the mold of RADAR, is, I believe, at the very least, short-sighted. We are clearly stuck with the existing definitions for now. However, they do not have to stay that way. A Version2 protocol should come out, just like AX.25 got revised early-on and became AX25L2V2. Display management should be high on the list of issues for APRS_V2.

Respectfully,

Jim Wagner, KA7EHK

Do You Yahoo!?

Send instant messages & get email alerts with Yahoo! Messenger.

<http://im.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 15:23:22 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02078

for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 15:23:21 -0500 (CDT)

Date: Mon, 15 May 2000 13:21:48 -0700 (PDT)

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <BowHunter@mail.com>

Subject: [aprsspec] Re: APRS Draft 1.01m Notes

In-Reply-To: <LYR12892-83940-2000.05.15-00.12.23--hacker@tc.fluke.com@lists.tapr.org>

Message-ID: <LYR11589-84094-2000.05.15-15.25.04--lyris.aprsspec@tapr.org@lists.tapr.org>

Organization: Fluke Corporation

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.10.10005151317530.19358-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In the MIC-E chapter, there are two "TM" symbols where there should be a ">=". Page 50, at the bottom. At least in the PDF version. Don't know about the Word version, and don't care.

I see some more misplaced "TM" symbols on page 51, so perhaps they are throughout the document?

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 15 18:26:52 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA09949
for <lyris.aprsspec@tappr.org>; Mon, 15 May 2000 18:26:48 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 15 May 2000 19:26:37 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84070-2000.05.15-12.41.02--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84129-2000.05.15-18.28.34--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <Pine.GS0.4.05L.10005151837300.13969-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I DISAGREE 100%. Caps added for emphasis of key words only...Im not Shouting, hi hi..

Forget all that has been said. Start with a clear and open mind. The "concept" I am trying to quantify with this CENTER/RANGE SCALE is a way for ANY user, looking at ANY map, or view ON HIS COMPUTER to be able to DESCRIBE what HE sees to any other user by APRS, voice or any other communications medium suscinctly and in an expected, simple, and common format.

It has NOTHING to do with "areas of interest"
It has NOTHING to do with "common geographical areas"
It has NOTHING to do with anyone else's MAP, VIEW, or WINDOW
It has NOTHING to do with what the receiving station, sees or views....

It is ONLY a SIMPLE METRIC for ME to describe MY VIEW, that is to say, "what I am looking at". SO that if YOU need to know what I am looking at, I have given you all that you need to know to UNDERSTAND what I am seeing...

If I say I am looking at a view centered on "X" with a RANGE SCALE of "R" miles then NO ONE under the sun can MISSINTERPRET that. Period.

Now if Jim wants to have a view that is 1000 miles wide and only 100 miles tall, then he can say that he "is looking at a view CENTERED on "x" with a N/S RANGE SCALE of 50 miles and and E/W RANGE SCALE of 500 miles."

AGAIN, there is NO CHANCE for missinterpretation of what He is looking at.

On Mon, 15 May 2000, Ian Wade wrote:

> Problem is, we have now returned to the reason why Jim got confused in
> the first place. Bottom line: the term "map view" is totally irrelevant,
> confusing and meaningless in this context.

I disagree 100% in what I am trying to describe.

> I look at a map, and decide the center/range scale. I tell you the
> center/range scale. We now both understand exactly which bit of *ground*
> we are talking about. That's the object of the exercise.

I would say it describes what "I" am talking about in an unambiguous way, It says nothing about what the receiving station is looking at, or even interested in. Thats up to him. But at least he now KNOWS what "I" am

looking at unambiguously...

> But I do **not** tell you which bit of your **map** to **view**. Your "map
> view" is whatever part of your **map** you choose to view.

Agreed absolutely.

> You can pan/zoom/change your window size at any time to get a different
> "map view". Your "map view" may not even contain **any** of the bit of
> ground we agreed on.

REMOVE any CONCEPT of the "ground we agreed on". That has nothing to do with this CENTER/RANGE concept. CENTER/RANGE is only a way of describing (quantifying) a VIEW from the SENDER's perspective. There is nothing required, assumed, or inferred on the part of the receiver to do anything with this data. But it is there, in an UNAMBIGUOUS way for his use if needed.

> All of this is a display issue and nothing to do with the spec.

I DISAGREE COMPLETELY. The APRS SPEC is a standard for APRS communications. The SPEC is full of such STANDARDS so that INFORMATION is conveyed UNAMBIGUOUSLY from the sender to the RECEIVER... The presence of MAP VIEWS throughout ALL versions of APRS software is the single most salient characteristic of APRS compared to all other PACKET radio.

THEREFORE, We MUST have a common, standard METRIC to describe those views to OTHERS as WE see them.... CENTER/RANGE-SCALE is that METRIC.

> A "view" is what you see in a window. Nothing more. It is **nothing**
> whatsoever to do with the center/range scale area.

I disagree 100% completely! It **is** THE MEASURE, the way of QUANTIFYING the size of that VIEW. Nothing more, nothin less.... It will change as often as I change my VIEW. But no matter what it is at any instant, it is

- 1) Complete
- 2) Unambiguous
- 3) Simple
- 4) Well understood.
- 5) Concise

in describing what the SENDER wants to convey when he says...

"I am looking at "X" with a RANGE SCALE of "Y" and I see (or dont see)
"Z"...

I say again, I know of no other METRIC that is as simple, concise, unambiguous, and well understood as the above. By including the provision

for N/S and E/W range scales we can even describe the rectangular views as well..

And FINALLY, this is not some academic exercise. It is MY EXPERIENCE of 9 years of seeing APRS used in the FIELD to support events and REAL applications where OPERATOR CONFUSION runs RAMPANT between different operators trying to resolve the location of something that they BOTH see or DONT see on their respective SCREENS.

They MUST HAVE A COMMON WAY TO DESCRIBE the SIZE of WHAT THEY ARE LOOKING AT... Using CENTER and RANGE-SCALE is that WAY.

Just look at Jim's examples. This confusion happens ALL THE TIME...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 19:12:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA11635
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 19:11:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 15 May 2000 20:11:39 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: aprsspec digest: May 14, 2000
In-Reply-To: <LYR11586-84078-2000.05.15-14.02.06--bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84140-2000.05.15-19.13.39--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005151929510.13969-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 15 May 2000, James Wagner wrote:

> 1. Not one has heard of "Range Scale" associated with a map.

I am not talking about MAPS. I am talking about ELECTRONICALLY PRESENTED VIEWS of geographical data.

> 3. Two have tried to find their location on a paper map using GPS.

Yes, but WHAT method have they used to "COMMUNICATE by any other means" to tell someone else (remotely) in the blind about the "size and scale" of the map they are using? If they are using a 1:10,000 QUAD and someone else is using a EXXON State Highway map, then I bet dollars to DONUTS that they cannot make sense to each other about what they SEE on the map without CONVEYING the difference in their map views....

> 4. All know that their "good" maps have lat/lon scale on map edges.

To what scale? I have a chart of the East Coast of the USA with LAT/LONG, and I have a harbor chart of Annapolis with LAT/LONG and two "in the blind" users of these two maps will see NOTHING AT ALL in common...

> 5. When explained, all pilots relate "Range Scale" to OMNI "rose"
> printed on their nav charts. But, when confronted with the idea
> that "Range Scale" somehow described the size, extent, etc, of a
> map, all responded with a "blank" and/or "What good is it?"

Its not a MAP. Its an "ELECTRONIC VIEW" which can range over 8 orders of magnitude of scale. Put two such pilots on two ends of TELEPHONE. Give one a SECTIONAL chart and one a RUNWAY chart of the local airport.. and ask them to talk about something they see on their chart. The FIRST Thing they will do when they realize they are looking at two different views is to somehow REFERENCE their chart to the OTHER guys chart. It may be subtle, but until they somehow communicate a REFERENCE, thew will be hopelessly confused...

> 6. Not one of the pilots has flown an aircraft with a Range-Scale
> display in the cockpit. Single-engine private aircraft don't usually
> carry RADAR.
> 7. One non-pilot, when prodded, did associate it with a circular RADAR
> display.
> 8. All are computer users.

So, then, we have a pilot, looking at a MAP/CHART/VIEW in his aircraft and I see on my PC/MAP/WINDOW/VIEW a map of ARBITRARY size, scale and location.... How do I know what the PILOT is looking at when he asks if I see "X"? How far away is it? From Where? What SCALE is he viewing?

> 9. Several were experienced DOS users but not one willingly uses it
> now.
> 10. When asked about software to view "maps" on a computer screen, all
> preferred a windows-oriented environment where they could have
> other windows from other applications present, allowing them, for
> example, to record notes related to the situation at hand.

Great. No problem, but HOW do they CONVEY what THEY are looking at to
SOMEONE else?

> down the path of narcissism. Do we really want to develop yet another
> tool which has little real-world use and is thus, hardly more than a
> toy for our ham amusement.

The only alternative that you have offered to CENTER and RANGE to
unambiguously describe a MAP VIEW is to require an 8 valued metric
of the LAT/LONG of the four corners of the view.

I say that your proposal for the APRS common way to Quantify a VIEW by
the LAT/LONG of the four corners is:

- 1) Not concise
- 2) Not easy to visualize in scope or scale
- 3) Not easy to refer to a central point of reference
- 4) Unwieldly and prone to grievous errors when passed by voice
- 5) Inconsistent with the STATION-CENTRIC physics of radio communication
- 6) etc...

> is a real key to this discussion. People use mapping packages developed
> by software programmers (who else would develop the packages?) because
> they are easy to use. Yes, they are "biased"; they LIKE the software
> and they use what they like!

These are self-relevant APPLICATIONS. They are NOT used in a real-time,
multi-user, multi-view, network of disjoint users all using a DIFFERENT
map system and set of maps. I will BET that any such NETWORKED use where
all users on the network need to communicate about WHAT They see on their
georeference system will have SOMETHING like:

REGION

MAP NAME

MAP SCALE

ZOOM FACTOR

MAGNITUDE,

or any of a number of other ways to communicate the SIZE of any
particular VIEW among users..

If they dont, then they will.... once they try to let humans use them in

an ON-AIR scenario...

> technology and changes in the technology user-base. If we do not
> recognize this situation and fail to cope with maps "that can be
> stretched every which way", then APRS will go the way of other
> technologies which "were promising but never made it".

Stretch them any way you want. The CENTER and RANGE (allowing for a separate N/S and E/W component) still seems to me to be the simplest, most concise and most useful descriptor of a station-centric or object-centric or interest-centric view...

> To me, the idea of "Range Scale" is simply useless because
> it does not fit what people want to do with their tools.

How then do you convey to a distant "dissinterested" observer what "map/view/scale/window" you are currently referring to?

> To force the APRS display into the mold of RADAR, is, I believe, at the
> very least, short-sighted. We are clearly stuck with the existing
> definitions for now.

But Jim, I think you have contributed greatly by causing us to expand the definition, to include a N/S and E/W component of range scale for maps that are not well suited to a single range descriptor. Also, you have forced me to clean up my wording and focus only on the concept of a single VIEW METRIC. I appologize for getting frustrated at not being able to get others to see such a clear and simple concept.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 19:27:46 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA12114
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 19:27:46 -0500 (CDT)
Message-ID: <LYR11589-84147-2000.05.15-19.29.28--
lyris.aprsspec@tapr.org@lists.tapr.org>
Reply-To: "Tj Johnston" <n4uyq@arrl.net>
From: "Tj Johnston" <n4uyq@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Draft 1.01m Notes

Date: Mon, 15 May 2000 20:27:19 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <006901bfbecd\$7faa3ee0\$cc74f7a5@tjjohnstonmindspring.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Will variable-rate "Smart" beaconing be included in this spec? and if not,
has a standard been set?

=====
Tj Johnston, N4UYQ ICQ#3134626
Hopewell, VA - Prince George Co. ARES/RACES
Eastern Virginia APRS Group (EVA) - Sec/Treas.
EVA Homepage: <http://www.qsl.net/eva/>
APRSDigi Homepage: www.qsl.net/n4uyq/aprstdigi.htm
=====

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 15 19:27:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA12131
for <lyris.aprsspec@tapr.org>; Mon, 15 May 2000 19:27:53 -0500 (CDT)
Message-Id: <LYR11589-84148-2000.05.15-19.29.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 15 May 2000 19:12:30 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: aprsspec digest: May 14, 2000
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-84140-2000.05.15-19.13.39--dvanhorn#cedar.net@lis

ts.tappr.org>
References: <LYR11586-84078-2000.05.15-14.02.06--
bruninga#nadm.navy.mil@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <4.0.1.20000515191108.0388d380@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

>On Mon, 15 May 2000, James Wagner wrote:

>

>> 1. Not one has heard of "Range Scale" associated with a map.

Funny. Every map I ever looked at had one. They are usually called scales,
since calling it a range scale is a bit redundant.. (x feet per inch or
some such)

- - -

Are you an ISP? Tired of spam?

www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOSCujoF1GDz1l6VWEQKqBgCgyQ7Do3DvLSTEr2swkJGP0GWxRqMAn09T

9+97771o9k3W0QumqBGix/nIW

=LakR

-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 16 00:42:06 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA00466

for <lyris.aprsspec@tappr.org>; Tue, 16 May 2000 00:42:01 -0500 (CDT)

Message-Id: <LYR11589-84194-2000.05.16-00.43.41--

lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 15 May 2000 22:41:40 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Bearing and Range
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130301b5468de94417@[198.106.198.161]>
<LYR11893-84180-2000.05.16-00.00.54--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob and everyone.

I had hoped to let this lay, but I think I see some common ground here.

In my terms, Bob seems to be describing Range from some location. The hang-up is that the location has nothing to do with the CENTER of the map/view.

So long as you have some method for readily determining the coordinates of some reference point (say, just for example, mouse-clicking with a cursor at the point in question) and some ready method for determining the distance from there to some other point (say, by dragging your cursor between the two, just for example), then you would appear to satisfy Bob's requirement.

If this is correct, the whole idea of "range" has nothing to do with the distance from the center of the map to its nearest edge. Or the extent of the map view. Or the scale of the map. Or any of these other things. It is simply the distance from the reference point and some other point in question.

Cheers,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 01:18:09 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA01338
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 01:18:06 -0500 (CDT)
Message-ID: <LYR11589-84196-2000.05.16-01.19.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 16 May 2000 07:17:58 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Bearing and Range
References: <LYR14779-84194-2000.05.16-00.43.41--
Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-84194-2000.05.16-00.43.41--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <HcyXwOAWgOI5Ew8P@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-84194-2000.05.16-00.43.41--Ian.Wade@care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes
>Bob and everyone.
>
>I had hoped to let this lay, but I think I see some common ground here.
>
>In my terms, Bob seems to be describing Range from some location. The
>hang-up is that the location has nothing to do with the CENTER of the
>map/view.

No. Bob seems to be describing it now as the center of his "map view"
(i.e. the center of what he sees in his display window), not the center

of a piece of ground. Others could care less about what Bob can see on his screen -- they just want to know what on-the-ground geographical area he is referring to. That's why "map view" is meaningless.

>
>So long as you have some method for readily determining the coordinates of
>some reference point (say, just for example, mouse-clicking with a cursor
>at the point in question) and some ready method for determining the
>distance from there to some other point (say, by dragging your cursor
>between the two, just for example), then you would appear to satisfy Bob's
>requirement.
>
>If this is correct, the whole idea of "range" has nothing to do with the
>distance from the center of the map to its nearest edge. Or the extent of
>the map view. Or the scale of the map. Or any of these other things. It is
>simply the distance from the reference point and some other point in
>question.

Exactly. The reference point is a point on the ground. It is not a point on the display. It is not a point on the "map view".

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| | |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 01:19:28 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA01371

for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 01:19:22 -0500 (CDT)

Message-Id: <LYR11589-84198-2000.05.16-01.20.54--

lyris.aprsspec#tapr.org@lists.tapr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Date: Mon, 15 May 2000 23:18:14 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Range
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130302b54697237033@[198.106.198.161]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob and everyone.

I had hoped to let this lay, but I think I see some common ground here.

In my terms, Bob seems to be describing Range from some location. The hang-up is that the location (as he described it in his examples) has nothing to do with the CENTER of the map/view.

It seems to me that Bob's requirement would be satisfied if:

(1) There some method for readily determining the coordinates of some reference point. Just for example, it might be mouse-clicking with a cursor at the point in question.

(2) There is some ready method for determining the distance from there to some other point. For example, it might be as simple as dragging the cursor between the reference point and some other point in question. Or it might be clicking a "distance" button, then clicking a point in the view with the software determining the distance from the clicked point to the reference point.

If this is correct, the whole idea of "range" has nothing to do with the distance from the center of the map to its nearest edge. Or the extent of the map view. Or the scale of the map. Or any of these other things. It is simply the distance from the reference point and some other point in question.

Could it be that we have been discussing entirely different things without recognizing it?

Cheers,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 09:08:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24094
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 09:08:36 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 16 May 2000 10:07:49 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Range
In-Reply-To: <LYR11586-84198-2000.05.16-01.20.54--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84237-2000.05.16-09.10.20--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005160933040.9286-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 15 May 2000, Jim Wagner wrote:

> In my terms, Bob seems to be describing Range from some location. The
> hang-up is that the location (as he described it in his examples) has
> nothing to do with the CENTER of the map/view.

No, it has EVERYTHING to do with the CENTER of the MAP VIEW of the person

who is referring to it... That is its definition... Ian's attempt to tie that location to a piece of ground in a "reference area" lead us all off on a tangent... and everyone else seems to still be thinking along those lines... I have returned to the original concept of simply a METRIC for describing the LOCATION and EXTENT of a view. ANY view.

> If this is correct, the whole idea of "range" has nothing to do with the
> distance from the center of the map to its nearest edge. Or the extent of
> the map view. Or the scale of the map. Or any of these other things. It is
> simply the distance from the reference point and some other point in
> question.
>
> Could it be that we have been discussing entirely different things without
> recognizing it?

Yes, and we still are. Please understand I am talking about only the METRIC to be used to describe the "location and extent" of MY "current" MAP VIEW. "MY" in this case is WHOEVER wants to "describe" his own view to someone else...

In this context. The CENTER of that "view" describes the "location" of the view and the "RANGE SCALE" describes the "extent" of that view.

NOTHING MORE. I have seen only the following other alternatives as a METRIC for anyone to use to describe their "current" view.

- 1) CENTER and RANGE (can have N/S and E/W components if needed)
- 2) LAT/LONG of all four corners

This discussion should have proved to EVERYONE the importance of having a common method of describing views. If we cannot understand what the other of us is saying about a view, then how can we possibly expect the users to make sense across all platforms and views and scales and in the heat of operations.

It appears that each author is still thinking that everyone is using ONLY their software. Then in most cases there is consistency. But PLEASE try to put yourself in the USERS shoes who is trying to visualize what Someone else using someone elses software is looking at. Close your eyes. What is the simplest way to do that?

I maintain that referring to the CENTER and RANGE of the view is the simplest and most concise way...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 09:55:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA25720
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 09:55:26 -0500 (CDT)
Date: Tue, 16 May 2000 09:54:53 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-84244-2000.05.16-09.56.53--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Range
In-Reply-To: <LYR11595-84198-2000.05.16-01.20.54--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200005161454.JAA88551@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Mon, 15 May 2000 23:18:14 -0700
> To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
> From: Jim Wagner <wagnerj@proaxis.com>
> Subject: [aprsspec] Range
> [...]
> (1) There some method for readily determing the coordinates of some
> reference point. Just for example, it might be mouse-clicking with a cursor
> at the point in question.
>
> (2) There is some ready method for determining the distance from there to
> some other point. For example, it might be as simple as dragging the cursor
> between the reference point and some other point in question. Or it might
> be clicking a "distance" button, then clicking a point in the view with the
> software determining the distance from the clicked point to the reference
> point.
> [...]

These sound like really useful, intuitive GUI features, (although you should provide provide heading as well as distance).

I will admit that, even on re-reading the "Range" discussions, much of it doesn't make a whole lot of sense, particularly compared to Jim's

suggested solution above.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 11:51:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA02052
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 11:51:45 -0500 (CDT)
Message-ID: <LYR11589-84276-2000.05.16-11.53.27--
lyris.aprsspec@tapr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR13439-84244-2000.05.16-09.56.53--ssampson@usa-site.net>
Subject: [aprsspec] Re: Range
Date: Tue, 16 May 2000 11:49:55 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001a01bfbf56\$c3648260\$83228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

All this discussion reminds me of the manual inputs days of the Air Defense Command. Your PPI had a center, and you could click a range switch, or offset the center of the sweep. This was all replaced by vector displays (and then raster) that show a map that covers the most area with the least distortion. You can roll your track-ball and the cursor can be used to "hook" any point, press the offset button to center, and then zoom in or out in binary (2x, 4x, 8x, 16x, 32x). You basically roll/offset to pan the view. I still think this is pretty much an obsolete model (1930's).

I like the UI-View method. You don't have to worry about zooming in and out. You make a map of the area you want (special event, static, etc) and that's what you see. I think it is the logical modernization of the PPI scope model.

One of the interesting things you see about a scope operator, is they tend to use the same scale out of habit. The people who actually look around for unknown targets, usually have a large scale and then offset and zoom to the area where they see something. This is the same as offsetting and selecting a new map with higher resolution.

But say they put a track on the object. The computer then transmits the track block to others based on its lat/lon. It has no concept of center, scale, or range. The distant receiver of the track block can display it any way they like; indeed, they do.

Steve/k5okc

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 12:27:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA03702
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 12:26:58 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 16 May 2000 13:24:17 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Range
In-Reply-To: <LYR11586-84244-2000.05.16-09.56.53--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84283-2000.05.16-12.28.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005161229430.27959-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To try to show you exactly what I really want to see on ALL APRS views as a common frame of reference for ALL users of ALL software is the following.... Please use a FIXED FONT to see this:

- 1) Somewhere on the VIEW, display a LEGEND that extends from the CENTER OUTWARD with a length equal to the largest integer power of 2 that will fit. The RANGE SCALE is the length of that LEGEND.
- 2) Somewhere on the VIEW, display the LAT/LON of the center & that RANGE.

[illegible]

Notice that you can zoom to ANY size , ANY shape, but as long as we all display the largest integer power of 2 RANGE that will fit on each view then we all have a basis for common communications. I am Perfectly OK with Jim's long maps too. In this case he would display:

[illegible]

His user would say he is "on a 64 mile range scale" from X. The user has a clear frame of reference as to what is within range of this view even if it is squished.

Further, I dont care whether you put the RANGE SCALE LEGEND in any of the other 8 orientations, or horizontal or vertical, as long as ONE END is referenced to the center... The KEY is that the view is more-or-less quantified by only TWO parameters, CENTER and RANGE SCALE.

What I do **not** want to see is this:

A rectangular box with a dashed border. In the bottom right corner, there is a scale bar consisting of a horizontal line segment with vertical tick marks at each end, labeled "10mi".

How do I describe this to anyone???

Where on the planet are we? What is the center?

Its hard for me to instantly grasp about how wide this view is.

Will something reported as 60 miles away from me be on this map?

It is just not clear for use in a network of dissimilar users all with different views and all needing to communicate rapidly and concisely.

Hope this helps..

Bob

P.S. It DOES NOT HAVE TO BE MILES. It can be Statute miles, Nautical miles, or Kilometers. But whatever it is, it should be the largest integer power of 2 that will fit. It doesnt even have to be integer powers of two. Though I prefer that as a simple descriptor of magnitude. If your range scale is 50 miles. I have no problem with that. Just display a LEGEND that is 50 miles long.

— — —

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 16 22:46:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA29498
for <lyris.aprsspec@tapr.org>; Tue, 16 May 2000 22:46:42 -0500 (CDT)
Message-Id: <LYR11589-84373-2000.05.16-22.48.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Tue, 16 May 2000 20:46:18 -0700

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11639-84129-2000.05.15-18.28.34--ke6afe#arrrl.net@lists.tappr.org>
References: <LYR11586-84070-2000.05.15-12.41.02--bruninga#nadm.navy.mil@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4.3.1.2.20000516203549.00b52b50@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I hope it might help to have a specific example to discuss. How about a view centered at 3853.83N/07702.30W with a Range Scale of 1 Nautical Mile. Do you see the Lincoln Memorial? Do you see the Washington Monument? I'd describe this view with Jim's 4 corner points too if I could figure out just how to do that. Maybe Jim will provide them for discussion purposes. Just thought an example might help.

73, Cap KE6AFE

--

Cap Pennell
Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
email: cap@cruzio.com home page: http://members.cruzio.com/~cap
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed May 17 00:29:28 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
 by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA10856
 for <lyris.aprsspec@tappr.org>; Wed, 17 May 2000 00:29:28 -0500 (CDT)
Message-ID: <LYR11589-84409-2000.05.17-00.31.13--lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Steve Sampson" <ssampson@usa-site.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11586-84070-2000.05.15-12.41.02--bruninga#nadm.navy.mil@lists.tappr.org> <LYR13439-84373-2000.05.16-22.48.27--ssampson#usa-site.net@lists.tappr.org>

Subject: [aprsspec] Re: More about Center and Range
Date: Wed, 17 May 2000 00:28:22 -0500
Organization: USA Site Network
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000d01bfbfc0\$b807acc0\$83228cd1@spacewar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here's what I see:

<http://www.usa-site.net/~ssampson/sample.gif>

(GIF is 50k)

I see both, but I can't see Kennedy Center, or
Chinatown Arch.

----- Original Message -----

> I hope it might help to have a specific example to discuss. How about a
> view centered at 3853.83N/07702.30W with a Range Scale of 1 Nautical Mile.
> Do you see the Lincoln Memorial? Do you see the Washington Monument?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 01:07:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA11923
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 01:07:27 -0500 (CDT)
Message-ID: <LYR11589-84419-2000.05.17-01.09.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <200005110638.GAA21726@www.aprs.net>
Subject: [aprsspec] Re: [aprssig] Re: Unhandled Exception Error
Date: Tue, 16 May 2000 23:06:53 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <00c301bfbfc6\$1c5ab640\$8f93b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id BAA11923

More differences between APRServe and APRSd. APRServe echos all packets, even those sent to it by your local station. APRSd does not! I send it a packet, it is not ever echoed back by APRSd. Everything else still works, I can send message to other stations, I can be seen, RF gating appears to work, but I can not see my own packets, or any packets my station might send to APRSd. It is like transmitting on RF, and knowing you are getting out, but never seeing a digipeated packet.

3rd party messages. One of the fundamental designs of the third party packet and APRServe was that APRServe would ignore them. That has changed with APRSd. I have modified the current version of APRS+SA to remove them. Yes, that is simple. I just wanted you to be aware, APRSd is not equal to APRServe.

www.aprs.net == APRSd
second.aprs.net == APRServe.

Brent KH2Z

----- Original Message -----

From: Steve Dimse K4HG <k4hg@aprs.net>
To: Brent Hildebrand <bhildebrand@earthlink.net>
Sent: Wednesday, May 10, 2000 11:38 PM
Subject: Re: [aprssig] Re: Unhandled Exception Error

> On 5/11/00 2:17 AM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>
> >If APRSd is not removing 3rd party packets, then this is a fundamental
> >change in the APRServe philosophy. Remember when this all got started?
> >Programs could send everything heard to APRServe.
>
> When we came up with the idea about using the third-party packets, we
> said the IGates block them. I added the filter to APRServe as a backup.
> It was not meant as the primary defense.
>
> >APRServe had the smarts
> >on 3rd party packets. What I saw on www.aprs.net was more then just 3rd
> >party packets, which were there. APRSd does not equal APRServe
> >apparently. Unfortunately.
> >
> Reading between the lines, are you saying that APRS+SA is sending them?
> If so, it should not be hard for you to fix this right? It would be easy
> to add to aprsd if I understood the code, but every time I've looked at
> it to try to fix something I have gotten a terrible headache and given up.
>
> Steve K4HG
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 01:18:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA12227
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 01:18:34 -0500 (CDT)
Message-Id: <LYR11589-84425-2000.05.17-01.20.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 16 May 2000 23:18:12 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Range and Center: My Final Answer
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130304b547e95d459a@[198.106.196.102]>
<LYR11893-84385-2000.05.17-00.00.07--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Hello everyone -

This has gone on far too long. We seem to have gone around several times and I am confused.

I will implement Center and Range indication in my maps in any way that the spec gets written. But, I will also provide other tools which (hopefully) provide even better information.

Cheers,
Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

```
-----  
wagnerj@proaxis.com          Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM    near Corvallis OR, home of  
ka7ehk@yahoo.com             Oregon State University  
-----
```

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 01:25:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA12382
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 01:25:40 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-84426-2000.05.17-01.27.25--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 17 May 2000 02:27:04 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Unhandled Exception Error
References: <200005110638.GAA21726@www.aprs.net>
<LYR11601-84419-2000.05.17-01.09.12--jeff@aerodata.net@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <39223BB8.58D463D8@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Brent Hildebrand wrote:

> More differences between APRServe and APRSd. APRServe echos all packets, even those sent to it by your local station. APRSd does not! I send it a packet, it is not ever echoed back by APRSd. Everything else still works, I can send message to other stations, I can be seen, RF gating appears to work, but I can not see my own packets, or any packets my station might send to APRSd. It is like transmitting on RF, and knowing you are getting out, but never seeing a digipeated packet.

A more proper analogy is its like connected mode RF as the underlying TCP layer is handling retries/confirmation of receipt.

-Jeff wb8wka

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed May 17 02:13:47 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA13871
for <lyris.aprsspec@tappr.org>; Wed, 17 May 2000 02:13:42 -0500 (CDT)
Message-ID: <LYR11589-84429-2000.05.17-02.15.21--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 17 May 2000 08:13:26 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Range and Center: My Final Answer
References: <LYR14779-84425-2000.05.17-01.20.20--
Ian.Wade#care4free.net@lists.tappr.org>

In-Reply-To: <LYR14779-84425-2000.05.17-01.20.20--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <+2i56CAWakI5EwZY@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-84425-2000.05.17-01.20.20--Ian.Wade#care4free.net@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>
>I will implement Center and Range indication in my maps in any way that the
>spec gets written. But, I will also provide other tools which (hopefully)
>provide even better information.

There may be a few words in the spec on the *philosophy* of Center and Range, but there will be nothing about its *implementation*.

Within the scope of APRS Protocol Version 1.0, implementation of Center and Range is a display/operational issue, not an on-air issue. So the way is wide open for you to develop those tools.

BTW, you can add my name to your list of people who have come across "Range Scale" -- at one time I was in radar system design (but that was 35 years ago, in the last century <grin>).

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net |
|                               | |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed May 17 09:35:10 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05712
for <lyris.aprsspec@tappr.org>; Wed, 17 May 2000 09:35:06 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 17 May 2000 10:34:49 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Range and Center: My Final Answer
In-Reply-To: <LYR11586-84429-2000.05.17-02.15.21--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84500-2000.05.17-09.36.54--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005170949380.620-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 17 May 2000, Ian Wade wrote:

> There may be a few words in the spec on the *philosophy* of Center and
> Range, but there will be nothing about its *implementation*.
> Within the scope of APRS Protocol Version 1.0, implementation of Center
> and Range is a display/operational issue, not an on-air issue.

I disagree completely. Specifying a metric for MAP VIEWS is a STANDARDS
issue of the 1st degree of importance. It must be in the spec.

By the way, ON further thought, I also dont even care if the RANGE SCALE
LEGEND has one end on center. Just so long as SOMEWHERE on all
views is the following information. I DONT EVEN CARE IF WE CALL IT "RANGE
SCALE" But it MUST have the word "SCALE" in it.

LAT of center
LON of center
RANGE SCALE *or* SCALE

Where RANGE SCALE is simply defined as a LEGEND of length N mi|km|nm
which is approximately the distance of the smaller of the

half-width/or half-height. Thus even the following would be fine...

+-----+	So You can put it ANYWHERE, ANY oreintation
RNG	ANY thing you want, AND it doesnt even have
LAT	to be an integer power of 2. But the length
LON +	is important to be about HALF screen.
<- 32 mi ->	
+-----+	

Surely we can agree on this standard METRIC for defining !@#\$\$% SCALE!
IF JIM's users have such a problem understanding "RANGE" then we can JUST
CALL IT SCALE!!! I DONT CARE. But we MUST HAVE A STANDARD for
describing the extent of a "VIEW" in APRS. CENTER and @#\$\$%! SCALE are
the best way that I can think of.

Trying to do such a simple thing with a list of FOUR LAT/LONGS is
rediculuos. How many people can tell you if I can see a station 30
miles away if I tell you that the corners of my view are

3859.13N 07629.11W
3845.22N 07629.11W
3845.22N 07619.32W
3859.11N 07619.32W

Very precise but practically useless to human operators.

Whereas "my view is on a 32 mile range around Glen Burnie" is MUCH more
user friendly.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 09:49:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA06233
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 09:49:36 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 17 May 2000 10:49:13 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-83952-2000.05.15-01.50.27--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84503-2000.05.17-09.51.19--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10005171036550.620-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Authors,

This one is short. please take time to read it. It REMOVES RANGE! Thanks. Here is another try at a suggested wording that would be acceptable to all authors:

REFERENCE FOR MAP VIEWS:

> APRS is a tactical geographical system, and users need to be able to
> relate the size of a map view in a non-ambiguous way. Thus all map
> displays should have a meaningful legend to convey the SIZE of the map
> view to the users that is consistent across all applications.

> Thus when communicating about such views, two parameters are
> required: CENTER and SCALE.

>

> In this context, the SCALE of any map view is the approximate
> range (in nautical miles, statute miles or km) of the largest circle
> that will conveniently fit in that map view. This SCALE should
> be presented to the user with a LEGEND of that length somewhere
> on all views. This convention gives all software users a common
> and concise basis for describing the approximate size of the
> central region of all tactical map views across all platforms.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 10:10:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07038
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 10:10:20 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-84504-2000.05.17-10.12.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 17 May 2000 11:10:11 -0400
From: Stephen Schwarm <sschwarm@emc.com>
Organization: EMC Corp
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
References: <LYR16676-84503-2000.05.17-09.51.19--w3eve#arrrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3922B653.995E151B@emc.com>
Precedence: bulk

Bob,

I think I finally understand. I think the discussion so far has been mixing up two things. The Map View is what a user can see on his/her display at a point in time. That is what is defined below. And Area of Interest which the area that is involved in the activity being "managed" by APRS. It is up to the user what Map View they use so what you are trying to standarize is a common definition of the contents of a Map View so that two users talking to each other can agree that they at least have a common subset of the total APRS picture being displayed on their displays. Is this correct?

Steve, W3EVE

Bob Bruninga wrote:

>

> Authors,

>

> This one is short. please take time to read it. It REMOVES

> RANGE! Thanks. Here is another try at a suggested wording that would be
> acceptable to all authors:
>
> REFERENCE FOR MAP VIEWS:
>
> > APRS is a tactical geographical system, and users need to be able to
> > relate the size of a map view in a non-ambiguous way. Thus all map
> > displays should have a meaningful legend to convey the SIZE of the map
> > view to the users that is consistent across all applications.
>
> > Thus when communicating about such views, two parameters are
> > required: CENTER and SCALE.
> >
> > In this context, the SCALE of any map view is the approximate
> > range (in nautical miles, statute miles or km) of the largest circle
> > that will conveniently fit in that map view. This SCALE should
> > be presented to the user with a LEGEND of that length somewhere
> > on all views. This convention gives all software users a common
> > and concise basis for describing the approximate size of the
> > central region of all tactical map views across all platforms.
>
> de WB4APR, Bob
>
> ---
> You are currently subscribed to aprsspec as: w3eve@arrl.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 17 22:34:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA04754
for <lyris.aprsspec@tapr.org>; Wed, 17 May 2000 22:34:36 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 17 May 2000 23:34:03 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84504-2000.05.17-10.12.11--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84592-2000.05.17-22.36.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005172331540.18687-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 17 May 2000, Stephen Schwarm wrote:

> Bob,
> I think I finally understand....
> It is up to the user what Map View they use so what you are
> trying to standarize is a common definition of the contents of a Map
> View so that two users talking to each other can agree that they at
> least have a common subset of the total APRS picture being displayed on
> their displays. Is this correct?

Yes. But I would say the last sentence as... "can both have a scale of reference when they talk about the APRS picture being displayed on their displays..."

Bob

> Bob Bruninga wrote:
> >
> > Authors,
> >
> > This one is short. please take time to read it. It REMOVES
> > RANGE! Thanks. Here is another try at a suggested wording that would be
> > acceptable to all authors:
> >
> > REFERENCE FOR MAP VIEWS:
> >
> > > APRS is a tactical geographical system, and users need to be able to
> > > relate the size of a map view in a non-ambiguous way. Thus all map
> > > displays should have a meaningful legend to convey the SIZE of the map
> > > view to the users that is consistent across all applications.
> >
> > > Thus when communicating about such views, two parameters are
> > > required: CENTER and SCALE.
> > >
> > > In this context, the SCALE of any map view is the approximate
> > > range (in nautical miles, statute miles or km) of the largest circle
> > > that will conveniently fit in that map view. This SCALE should
> > > be presented to the user with a LEGEND of that length somewhere

> > > on all views. This convention gives all software users a common
> > > and concise basis for describing the approximate size of the
> > > central region of all tactical map views across all platforms.
> >
> > de WB4APR, Bob
> >
> > ---
> > You are currently subscribed to aprsspec as: w3eve@arrl.net
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tappr.org/tappr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 18 00:11:29 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA15610
for <lyris.aprsspec@tappr.org>; Thu, 18 May 2000 00:11:28 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 01:11:15 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84503-2000.05.17-09.51.19--
bruninga@nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84620-2000.05.18-00.13.18--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005180051380.19976-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ian and the group,

In my last posting, I focused only on the fact that I want a common "SCALE" of reference, for all map views. I removed all references to range except that it is simply used to define the approximate size of this Scale. In this sense it does make sense to include the word as an adjective modifier. The below only has one word changed from my posting earlier today... It is my preferred wording.

On Wed, 17 May 2000, Bob Bruninga wrote:

> REFERENCE FOR MAP VIEWS:
>
> > APRS is a tactical geographical system, and users need to be able to
> > relate the size of a map view in a non-ambiguous way. Thus all map
> > displays should have a meaningful legend to convey the SIZE of the map
> > view to the users that is consistent across all applications.
>
> > Thus when communicating about such views, two parameters are
> > required: CENTER and SCALE.
> >
> > In this context, the SCALE of any map view is the approximate
> > range (in nautical miles, statute miles or km) of the largest circle
> > that will conveniently fit in that map view. This RANGE SCALE should
> > be presented to the user with a LEGEND of that length somewhere
> > on all views. This convention gives all software users a common
> > and concise basis for describing the approximate size of the
> > central region of all tactical map views across all platforms.

This wording should be ambiguous enough for those authors and users who are confused by the term RANGE and they can just use SCALE. But those who do understand the concept of range, can use the term RANGE SCALE as a better descriptor of the "scale" that they are using.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 18 00:28:29 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA15919
for <lyris.aprsspec@tappr.org>; Thu, 18 May 2000 00:28:25 -0500 (CDT)
Message-Id: <LYR11589-84624-2000.05.18-00.30.14--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: cap@mail.cruzio.com
Date: Wed, 17 May 2000 22:26:15 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11639-84409-2000.05.17-00.31.13--ke6afe#arrrl.net@lists.
tappr.org>
References: <LYR11586-84070-2000.05.15-12.41.02--
bruninga#nadm.navy.mil@lists.tappr.org>
<LYR13439-84373-2000.05.16-22.48.27--ssampson#usa-site.net@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4.3.1.2.20000517221020.00b45a80@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 10:28 PM 5/16/2000, Steve Sampson wrote:

>Here's what I see:

>

><http://www.usa-site.net/~ssampson/sample.gif>

>

>(GIF is 50k)

>

>I see both, but I can't see Kennedy Center, or

>Chinatown Arch.

>

>----- Original Message -----

>

> > I hope it might help to have a specific example to discuss. How about a
> > view centered at 3853.83N/07702.30W with a Range Scale of 1 Nautical Mile.
> > Do you see the Lincoln Memorial? Do you see the Washington Monument?

Nice sample.gif, Steve. I think our datums are different, and it shows at this Scale. On my Washington, D.C. map using the maplist.eas DOS map with APRSdosMAX846, I see the given Center as the White House building

itself. I bet my map uses NAD27 and yours uses WGS84. Close though.
73, Cap

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
email: cap@cruzio.com home page: <http://members.cruzio.com/~cap>
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 02:15:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA18375
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 02:15:06 -0500 (CDT)
Message-ID: <LYR11589-84629-2000.05.18-02.16.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Thu, 18 May 2000 08:15:08 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-84503-2000.05.17-09.51.19--
bruninga@nadn.navy.mil@lists.tapr.org>
<LYR14779-84620-2000.05.18-00.13.18--Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-84620-2000.05.18-00.13.18--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <ALImVUA8h5I5Ews4@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-84620-2000.05.18-00.13.18--Ian.Wade@care4free.net@lists.tapr.org>, Bob Bruninga <bruninga@nadn.navy.mil> writes

>It is my preferred wording.

>

>On Wed, 17 May 2000, Bob Bruninga wrote:

>

>> REFERENCE FOR MAP VIEWS:

>>

>> > APRS is a tactical geographical system, and users need to be able to
>> > relate the size of a map view

What does "size of a map view" mean?

> in a non-ambiguous way. Thus all map

>> > displays should have a meaningful legend to convey the SIZE of the map
>> > view to the users that is consistent across all applications.

>>

>> > Thus when communicating about such views, two parameters are
>> > required: CENTER and SCALE.

>> >

>> > In this context, the SCALE of any map view is the approximate
>> > range (in nautical miles, statute miles or km) of the largest circle

What does "range ... of the largest circle" mean? How can a circle have
a "range"? (It can have a *radius*, as I wrote originally).

>> > that will conveniently fit in that map view.

Why does the circle have to fit into anything on the screen?

> This RANGE SCALE should

>> > be presented to the user with a LEGEND of that length somewhere
>> > on all views. This convention gives all software users a common
>> > and concise basis for describing the approximate size of the
>> > central region of all tactical map views across all platforms.

>

>This wording should be ambiguous enough

You can say that again. It *is* ambiguous.

I'm sorry Bob, but this won't do. You are still introducing noise about
"map views" which is of no interest to other users. Nobody is interested
in what "view" you have of your map on your screen. Nobody is interested
in whether that view fits your display window or not. Nobody is
interested in what kind of bar representing distance/range you display

in your window.

What people need to know is simply what *geographical area* you are referring to, which you *can* represent uniquely and unambiguously by center/range. That is all.

~~~~~

With this information, people can then decide which map they need, how they want to display it, and what scale bar (if any) they want to have displayed somewhere in the window. The "view" on their screen may finish up looking exactly like yours, but it doesn't have to.

~~~~~

This is where your definition falls down. By all means talk about a "map view" (provided you define the term, which you haven't), but don't relate it in any way to display geometry or display "views".

A few days ago, you presented a different form of words (just before you thought I'd tricked you with my fiendishly cunning logic :-)):

```
>> COMMUNICATING Geographical Areas of Common Interest
>> =====
>> APRS is a tactical geographical system. To maximize its operational
>> effectiveness, users need to have an unambiguous understanding of
>> geographical areas of common interest when communicating with each
>> other.
>>
>> In APRS, this is done by reference to a CENTER and RANGE. These
>> specify the geographical center and approximate radius of a circle that
>> covers the area of interest. The radius of the circle (in nautical
>> miles, statute miles or km) is known as the "range scale". This
>> convention gives all users a simple common basis for describing tactical
>> areas of interest, at whatever center/range scale is in use.
>>
>> For interoperability among all platforms and modes of communications, it
>> is expected that APRS user software will provide easy-to-use tools for
>> defining and viewing these areas of tactical interest.
>> ~~~~~
>
```

I said I would plug this into the spec, because I believe it covers all the points you've mentioned. It *is* ambiguous enough to allow different methods of specifying a geographical area of interest, *without* being needlessly prescriptive on how people relate it to their display views.

~~~~~

I still say that this earlier definition of yours is the best so far, in the context of the "APRS Design Philosophy" chapter in the spec.

~~~~~


73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 04:14:57 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA00864

for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 04:14:50 -0500 (CDT)

Message-ID: <LYR11589-84634-2000.05.18-04.16.40--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Thu, 18 May 2000 10:12:47 +0100

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Ian Wade <Ian.Wade@care4free.net>

Reply-To: ianwade@netro.co.uk

Subject: [aprsspec] Re: Range and Center: My Final Answer

References: <LYR11586-84429-2000.05.17-02.15.21--

bruninga#nadm.navy.mil@lists.tapr.org>

<Pine.GS0.4.05L.10005170949380.620-1000000@arctic>

In-Reply-To: <Pine.GS0.4.05L.10005170949380.620-1000000@arctic>

MIME-Version: 1.0

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <z50KZfAPQ7I5Ewof@care4free.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

In article <Pine.GS0.4.05L.10005170949380.620-1000000@arctic>, Bob Bruninga
<bruninga@nadm.navy.mil> writes

>By the way, ON further thought, I also dont even care if the RANGE SCALE
>LEGEND has one end on center. Just so long as SOMEWHERE on all

>views is the following information. I DONT EVEN CARE IF WE CALL IT "RANGE
>SCALE" But it MUST have the word "SCALE" in it.

No. The "scale" relates to how big something is displayed in a window.

The "range" relates to how big something is on the ground.

```
>
>Where RANGE SCALE is simply defined as a LEGEND of length N mi|km|nm
>which is approximately the distance of the smaller of the
>half-width/or half-height. Thus even the following would be fine...
>
>+-----+ So You can put it ANYWHERE, ANY oreintation
>|RNG      | ANY thing you want, AND it doesnt even have
>|LAT      | to be an integer power of 2. But the length
>|LON      + | is important to be about HALF screen.
>|          |
>|          |
>|      |<- 32 mi ->|
>+-----+
>
```

Why should the range scale be related in any way to the screen geometry
(i.e. half-height/half-width)?

The following 2 pictures show the "view" to exactly the same *range* as your
picture, but to a different "scale".

```
+-----+
|RNG      | ZOOM IN
|LAT      |
|LON      + |
|          |
|          |
| |<-----32mi----->| |
+-----+

+-----+ ZOOM OUT
|RNG      |
|LAT      |
|LON      + |
|          |
|          |
|      |<32mi>|
+-----+
```

This last picture could also be viewed like this:

```
+-----+
|RNG      |      ZOOM OUT, PAN LEFT
|LAT      |
|LON      |      +
|          |
|          |
|          |
|          |      |<32mi>|
+-----+
```

(i.e. the geographical center is not at the screen center.

In other words, all of the 4 above screen "views" are **different**, but they all represent exactly the **same** geographical area of interest, using the **same** range.

Thus it does not make any sense to talk about your screen "view". You need to talk about the **geographical area**, on the ground.

>
>Whereas "my view is on a 32 mile range around Glen Burnie" is MUCH more
>user friendly.

No problem at all with that, because you didn't use the word "scale", and you didn't specify how much of that view occupied your display -- your use of the word "view" here does not relate to screen scale or screen geometry.

I repeat: "view" and "scale" are screen/display/window artefacts, associated with zoom and pan actions, and are irrelevant to this discussion.

"Center" (=Glen Burnie) and "range" (=32 miles) relate to a geographical area, and are directly relevant to this discussion. But anyone using that information is free to "view" it and "scale" it any way they want -- this is not for the specification to decree.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX]          ~55km/35 miles NNW of London |
```

```
|                               email: g3nrw@arrl.net                               |
|                                                                           |
| APRS PROTOCOL SPEC:   http://www.tapr.org/tapr/html/Faprswg.html|
| APRS DECODER:         http://www.netro.co.uk/aprs.htm           |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 05:24:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA02292
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 05:24:25 -0500 (CDT)
Message-ID: <LYR11589-84635-2000.05.18-05.26.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 18 May 2000 11:23:44 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-83952-2000.05.15-01.50.27--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR13460-84503-2000.05.17-09.51.19--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-84503-2000.05.17-09.51.19--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <txgoSIAwS8I5EwbE@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-84503-2000.05.17-09.51.19--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@nadm.navy.mil> writes
>Authors,
>
> This one is short. please take time to read it. It REMOVES
>RANGE! Thanks. Here is another try at a suggested wording that would be
>acceptable to all authors:
>
>
>REFERENCE FOR MAP VIEWS:
>
>> APRS is a tactical geographical system, and users need to be able to

>> relate the size of a map view in a non-ambiguous way. Thus all map
>> displays should have a meaningful legend to convey the SIZE of the map
>> view to the users that is consistent across all applications.
>
>> Thus when communicating about such views, two parameters are
>> required: CENTER and SCALE.
>>
>> In this context, the SCALE of any map view is the approximate
>> range (in nautical miles, statute miles or km) of the largest circle
>> that will conveniently fit in that map view. This SCALE should
>> be presented to the user with a LEGEND of that length somewhere
>> on all views. This convention gives all software users a common
>> and concise basis for describing the approximate size of the
>> central region of all tactical map views across all platforms.

I wasn't going to join in this discussion, but...

I don't like this new version for two reasons (I'm assuming that where
you have put "range" of a circle you meant to put "radius".)

1. There are common usages of the term SCALE when referring to a map
that are different to your definition. E.g. "this map has a SCALE of
1:250,000", or "this map has a SCALE of one inch to five miles". I think
this proposed usage of the term SCALE will confuse users.

2. I don't like the insistence on the scale legend. On unprojected maps
drawn on a rectangular lat/long grid, as commonly used by APRS software,
such a scale is always inaccurate, and it becomes increasingly
inaccurate as the area covered by the map increases, to the point where
it contains no useful information. I don't think a requirement to show
such a line should be part of the spec.

So I think SCALE should be RANGE or RANGE SCALE, but not just SCALE on
its own, and the requirement for the scale legend should be removed.

That leaves a simple requirement for something like:-

Map centre - 5258.24N, 00002.77W
Map range (or range scale) - 50 miles

(RANGE or RANGE SCALE defined as you have defined SCALE.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 05:45:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA02705
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 05:45:25 -0500 (CDT)
Message-ID: <LYR11589-84637-2000.05.18-05.47.14--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Thu, 18 May 2000 11:39:05 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: More about Center and Range
References: <LYR11586-83952-2000.05.15-01.50.27--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR13460-84503-2000.05.17-09.51.19--roger#peaksys.co.uk@lists.tapr.org>
<LYR13460-84635-2000.05.18-05.26.18--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-84635-2000.05.18-05.26.18--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Shen27AJh8I5Ew84@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-84635-2000.05.18-05.26.18--roger#peaksys.co.uk@lists.tapr.org>, Roger Barker <roger@peaksys.co.uk> writes
[snip]

>Map centre - 5258.24N, 00002.77W
>Map range (or range scale) - 50 miles

Or rather:-
View centre - 5258.24N, 00002.77W
View range (or range scale) - 50 miles

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 18 07:20:41 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA07079
for <lyris.aprsspec@tappr.org>; Thu, 18 May 2000 07:20:30 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 08:20:12 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84629-2000.05.18-02.16.52--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84643-2000.05.18-07.22.24--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005180811390.29911-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 18 May 2000, Ian Wade wrote:

> >> > APRS is a tactical geographical system, and users need to be able to
> >> > relate the size of a map view
>
> What does "size of a map view" mean?

I just dont know how to make it any clearer. All of these words are in
the english dictionary.

> > in a non-ambiguous way. Thus all map
> >> > displays should have a meaningful legend to convey the SIZE of the map
> >> > view to the users that is consistent across all applications.
> >>
> >> > Thus when communicating about such views, two parameters are
> >> > required: CENTER and SCALE.
> >> >
> >> > In this context, the SCALE of any map view is the approximate
> >> > range (in nautical miles, statute miles or km) of the largest circle
>

> What does "range ... of the largest circle" mean? How can a circle have
> a "range"? (It can have a *radius*, as I wrote originally).

The RANGE of a circle is equivalent to its radius.

> >> > that will conveniently fit in that map view.

>

> Why does the circle have to fit into anything on the screen?

Because that is the metric for deciding what is the appropriate SCALE for
that map view.

> > This RANGE SCALE should

> >> > be presented to the user with a LEGEND of that length somewhere

> >> > on all views. This convention gives all software users a common

> >> > and concise basis for describing the approximate size of the

> >> > central region of all tactical map views across all platforms.

>

> >

> >This wording should be ambiguous enough

>

> You can say that again. It *is* ambiguous.

>

>

> I'm sorry Bob, but this won't do. You are still introducing noise about

> "map views" which is of no interest to other users. Nobody is interested

> in what "view" you have of your map on your screen. Nobody is interested

> in whether that view fits your display window or not. Nobody is

> interested in what kind of bar representing distance/range you display

> in your window.

No one may care, but when they DO, then I NEED A METRIC TO DESCRIBE IT TO
THEM!

> What people need to know is simply what *geographical area* you are

> referring to, which you *can* represent uniquely and unambiguously by

> center/range. That is all.

~~~~~

NO!!!!!! I am NOT describing a geographical AREA!!!!!! I am describing  
WHAT I SEE ON MY SCREEN!!!!!! This is so that I can CONVEY that to another  
user. \*\*\*\* BIG DIFFERENCE!!!!

> With this information, people can then decide which map they need, how

> they want to display it, and what scale bar (if any) they want to have

> displayed somewhere in the window. The "view" on their screen may finish

> up looking exactly like yours, but it doesn't have to.

>

~~~~~


ABSOLUTELY. They can LOOK AT ANYTHING THEY WANT. I am using CENTER AND SCALE AS A METRIC TO DESCRIBE WHAT **** I **** Am LOOKING AT. FORGET YOUR CONCEPT OF A FIXED GEOGRAPHICAL PIECE OF GROUND. THAT IS NOT WHAT I AM TALKING ABOUT.

> This is where your definition falls down. By all means talk about a "map
> view" (provided you define the term, which you haven't), but don't
> relate it in any way to display geometry or display "views".

I have too. Sorry you just don't understand it.

> A few days ago, you presented a different form of words (just before you
> thought I'd tricked you with my fiendishly cunning logic :-)):
>
> >> COMMUNICATING Geographical Areas of Common Interest
> >> =====
> >> APRS is a tactical geographical system. To maximize its operational
> >> effectiveness, users need to have an unambiguous understanding of
> >> geographical areas of common interest when communicating with each
> >> other.
> >>
> >> In APRS, this is done by reference to a CENTER and RANGE. These
> >> specify the geographical center and approximate radius of a circle that
> >> covers the area of interest. The radius of the circle (in nautical
> >> miles, statute miles or km) is known as the "range scale". This
> >> convention gives all users a simple common basis for describing tactical
> >> areas of interest, at whatever center/range scale is in use.
> >>
> >> For interoperability among all platforms and modes of communications, it
> >> is expected that APRS user software will provide easy-to-use tools for
> >> defining and viewing these areas of tactical interest.
> >> ~~~~~
>
> I said I would plug this into the spec, because I believe it covers all
> the points you've mentioned. It *is* ambiguous enough to allow different
> methods of specifying a geographical area of interest, *without* being
> needlessly prescriptive on how people relate it to their display views.
> ~~~~~
> I still say that this earlier definition of yours is the best so far,
> in the context of the "APRS Design Philosophy" chapter in the spec.
> ~~~~~

I disagree. It is ambiguous, refers to geography and not map views, and does not convey the sense of importance of having a common standard METRIC for describing map views.

Im GONE TO DAYTON. NO MORE COMMENTS TILL NEXT WEEK.

de WB4APR
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 07:37:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA08637
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 07:37:08 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 08:36:49 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Range and Center: My Final Answer
In-Reply-To: <LYR11586-84634-2000.05.18-04.16.40--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84645-2000.05.18-07.38.58--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005180821120.29911-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 18 May 2000, Ian Wade wrote:

> In article <Pine.GS0.4.05L.10005170949380.620-100000@arctic>, Bob Bruninga
> <bruninga@nadn.navy.mil> writes
>
> >By the way, ON further thought, I also dont even care if the RANGE SCALE
> >LEGEND has one end on center. Just so long as SOMEWHERE on all
> >views is the following information. I DONT EVEN CARE IF WE CALL IT "RANGE
> >SCALE" But it MUST have the word "SCALE" in it.
>
> No. The "scale" relates to how big something is displayed in a window.

> The "range" relates to how big something is on the ground.

NO, WRONG, INCORRECT. It is the radius of the largest circle that will fit on a screen.

> >Where RANGE SCALE is simply defined as a LEGEND of length N mi|km|nm
> >which is approximately the distance of the smaller of the
> >half-width/or half-height. Thus even the following would be fine...

```
> >
> >+-----+ So You can put it ANYWHERE, ANY oreintation
> >|RNG      | ANY thing you want, ANd it doesnt even have
> >|LAT      | to be an integer power of 2. But the length
> >|LON      + | is important to be about HALF screen.
> >|          |
> >|          |
> >|      |<- 32 mi ->|
> >+-----+
```

> Why should the range scale be related in any way to the screen geometry
> (i.e. half-height/half-width)?

So that it is consistent with everyone else. What we are after here is
CONSISTENCY. A METRIC that will be the same for everyone.

>
> The following 2 pictures show the "view" to exactly the same *range* as your
> picture, but to a different "scale".

```
> +-----+
> |RNG      | ZOOM IN
> |LAT      |
> |LON      + |
> |          |
> |          |
> | |<-----32mi----->|
> +-----+
```

YES, BUT THEN THIS PLOT WILL NOT CONTIAN EVERYTHING WITHIN A 32 MILE RANEG
OF THE CENTER OF THE SCREEN! IF I SAY THAT SOMETHING IS WITHIN 30 MILES
AND I AM ON THE 32 MILE RANGE SCALE, then BY GOSH IT OUTTA BE ON THE DAMN
SCREEN! *** THIS IS EXACLTY THE LUNACY WE ARE TRYING TO AVOID!!!!
This example shows EXACTLY WHY it is HALF-WDITH or HALF-HEIGHT to define
the RANGE SCALE!

```
> +-----+
> |RNG      | ZOOM OUT
> |LAT      |
> |LON      + |
> |          |
```

```

> |                                     |
> |          |<32mi>|                 |
> +-----+

```

I would say that this screen might compute to a range scale of 64 miles.

> This last picture could also be viewed like this:

```

>
> +-----+
> |RNG                                     |      ZOOM OUT, PAN LEFT
> |LAT                                     |
> |LON                                     |      +
> |                                     |
> |                                     |
> |          |<32mi>|                 |
> +-----+

```

NO IT CANNOT. AS SOON AS YOU MOVE THE SCREEN OR ZOOM, THEN IT HAS A NEW CENTER AND RANGE. YOU ARE STILL CONFUSING THIS AS A *** METRIC **** TO DESCRIBE EACH AND EVERY VIEW IN UNAMBIGUOUS CONSISTENT TERMS.

I SAY AGAIN! READ MY LIPS! CENTER AND RANGE DESCRIBE ONLY YOUR PRESENT VIEW! REPEAT THAT BACK TO ME SLOWLY... THINK ABOUT WHAT IT MEANS! IT IS ONLY A METRIC FOR DESCRIBING YOUR PRESENT VIEW IN A CONSISTENT MANNER, DEFINED IN THE APRS STANDARD.

> (i.e. the geographical center is not at the screen center.

Then it is NOT THE CENTER OF THIS VIEW!

> In other words, all of the 4 above screen "views" are *different*, but they
> all represent exactly the *same* geographical area of interest, using the
> *same* range.

FORGET GEOGRAPHICAL AREA OF INTEREST. I HAVE BEEN TELLING YOU THAT THAT CONCEPT IS ALL WRONG NOW FOR 3 DAYS. IT IS THE METRIC for describing YOUR CURRENT VIEW so that you can RELATE IT TO SOMEONE ELSE IN A CONSISTENT MANNER!

> Thus it does not make any sense to talk about your screen "view". You need
> to talk about the *geographical area*, on the ground.

THAT HAS NOTHING TO DO WITH CENTER AND RANGE AS A METRIC TO DESCRIBE A SCREEN VIEW. If you want to define something to do with geography, that is a different subject and totally meaningless in this section..

> >Whereas "my view is on a 32 mile range around Glen Burnie" is MUCH more
> >user friendly.

>
> No problem at all with that, because you didn't use the word "scale", and
> you didn't specify how much of that view occupied your display -- your use
> of the word "view" here does not relate to screen scale or screen geometry.

I certainly did to anyone that understands ENGLISH. My screen contains
**** AT LEAST **** a central area that is 32 miles in range from the
center of Glen Burnie. No one on the planet that understands English can
misinterpret that.

> I repeat: "view" and "scale" are screen/display/window artefacts, associated
> with zoom and pan actions, and are irrelevant to this discussion.

Then you DO NOT UNDERSTAND THE PRESENT DISCUSSION!

> "Center" (=Glen Burnie) and "range" (=32 miles) relate to a geographical
> area, and are directly relevant to this discussion. But anyone using that
> information is free to "view" it and "scale" it any way they want -- this is
> not for the specification to decree.

They may USE MY INFORMATION in any way they see fit! But when I am
looking at a view, I MUST HAVE A METRIC that is *** CONSISTENT *** with
everyone else in APRS to describe it in simplest and concise terms.

de WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 07:42:49 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA09739
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 07:42:43 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 08:42:19 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Range and Center: My Final Answer
In-Reply-To: <LYR11586-84634-2000.05.18-04.16.40--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84646-2000.05.18-07.44.32--

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005180836570.29911-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Since Ian is so confused about VIEWS and GEOGRAPHY, lets try this explanation.

Lets let everyone in all flavors of APRS, dos, Win,Mac,UIview, APRS+SA whatever display a VIEW that covers EXACTLY the same area. That is everyone's screen displays everything within a 32 mile range of Glen Burnie.

What I want out of this is that when EVERYONE of those users, is ASKED to describe the area he is looking at no matter what software he is using. His SIMPLE, CONCISE description done in accordance with the Standards layed out in the SPEC will all "sound about the Same".

If they DON'T sound the same then we do NOT HAVE A COMMUNICATIONS STANDARD and are only undermining interoperability between all users.

de WB4APR, GONE TO DAYTON... Now an HOUR LATE!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 07:47:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA10246
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 07:46:54 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 08:46:09 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range

In-Reply-To: <LYR11586-84635-2000.05.18-05.26.18--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84647-2000.05.18-07.48.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10005180843380.29911-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thanks Roger. I didnt like simplyfing it to just SCALE exactly for the reasons you mention. I agree too that as long as you display a RANGE SCALE NUMBER, you dont have to have the LEGEND. That was only to put it into a context that the people who dont like RANGE circles could in fact use a LINEAR legend and then NOT have to have a RANGE SCALE field along with the LAT/LON...

I think we are in agreement.

Bob

On Thu, 18 May 2000, Roger Barker wrote:

> >REFERENCE FOR MAP VIEWS:
> >
> >> APRS is a tactical geographical system, and users need to be able to
> >> relate the size of a map view in a non-ambiguous way. Thus all map
> >> displays should have a meaningful legend to convey the SIZE of the map
> >> view to the users that is consistent across all applications.
> >
> >> Thus when communicating about such views, two parameters are
> >> required: CENTER and SCALE.
> >>
> >> In this context, the SCALE of any map view is the approximate
> >> range (in nautical miles, statute miles or km) of the largest circle
> >> that will conveniently fit in that map view. This SCALE should
> >> be presented to the user with a LEGEND of that length somewhere
> >> on all views. This convention gives all software users a common
> >> and concise basis for describing the approximate size of the
> >> central region of all tactical map views across all platforms.
>
> I wasn't going to join in this discussion, but...
>
> I don't like this new version for two reasons (I'm assuming that where

> you have put "range" of a circle you meant to put "radius".)
>
> 1. There are common usages of the term SCALE when referring to a map
> that are different to your definition. E.g. "this map has a SCALE of
> 1:250,000", or "this map has a SCALE of one inch to five miles". I think
> this proposed usage of the term SCALE will confuse users.
>
> 2. I don't like the insistence on the scale legend. On unprojected maps
> drawn on a rectangular lat/long grid, as commonly used by APRS software,
> such a scale is always inaccurate, and it becomes increasingly
> inaccurate as the area covered by the map increases, to the point where
> it contains no useful information. I don't think a requirement to show
> such a line should be part of the spec.
>
> So I think SCALE should be RANGE or RANGE SCALE, but not just SCALE on
> its own, and the requirement for the scale legend should be removed.
>
> That leaves a simple requirement for something like:-
>
> Map centre - 5258.24N, 00002.77W
> Map range (or range scale) - 50 miles
>
> (RANGE or RANGE SCALE defined as you have defined SCALE.)
>
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - <http://www.packetradio.org.uk>
> For WinPack go to - <http://www.peaksys.co.uk>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapir.org/tapir/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 18 07:47:51 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA10273
for <lyris.aprsspec@tappr.org>; Thu, 18 May 2000 07:47:46 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 May 2000 08:47:00 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <LYR11586-84637-2000.05.18-05.47.14--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-84648-2000.05.18-07.49.35--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10005180846360.29911-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 18 May 2000, Roger Barker wrote:

> Or rather:-
> View centre - 5258.24N, 00002.77W
> View range (or range scale) - 50 miles

Yes, VIEW is better...

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 18 15:34:22 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03740
for <lyris.aprsspec@tappr.org>; Thu, 18 May 2000 15:34:22 -0500 (CDT)
Message-Id: <LYR11589-84684-2000.05.18-15.36.11--
lyris.aprsspec@tappr.org@lists.tappr.org>

Subject: [aprsspec] Re: More about Center and Range
Date: Thu, 18 May 2000 16:33:40 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200005182033.NAA20222@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 5/17/00 10:49 AM Bob Bruninga (bruninga@nadm.navy.mil) wrote:

> This one is short. please take time to read it. It REMOVES
>RANGE! Thanks. Here is another try at a suggested wording that would be
>acceptable to all authors:
>

I have assiduously avoided this discussion, because I think the underlying premise is wrong. I do not feel that user-interface issues belong in the protocol document. If they are to be written, they should be done as a separate document. I argue no user interface issues should not be dictated, because it will reflect the status quo, and take away incentive and opportunity for people to innovate.

I get the impression that if Bob could have his way, every program would look exactly like APRSdos, use the same keystroke combinations, the same maps. Yes, as he points out, it would make it easier for anyone to go into an EOC and start using their program regardless of whose version is installed. But is this homogeneity a Good Thing? I say not.

The second APRS program out was MacAPRS, the third javAPRS. Neither of those two have ever had map scale. In the 4 years since I first released javAPRS, I do not recall a single request for this scale legend.

Bob by his own admission is uncomfortable with GUI environments, so his rules would naturally reflect a bias towards the keyboard environment. Even though Mac/WinAPRS does not show a range bar on the screen, it has a far more useful feature, the map caliper. Simply click and drag on a map, and you will see the precise distance displayed. Wanna see how long a mile is? Just drag the caliper out until you see 1 mile displayed.

I especially object to the requirement for a scale legend. By chance the map product I use the most (MapBlast) has this, but I cannot control it, and most other internet products do not contain it, nor is there any way

for me to control most of the parameters Bob considers essential. For example, in the topo maps I can control the scale, but I cannot place a legend on the map, I cannot control the precise center, or even determine what it is.

Besides the underlying OS, the user interface is the thing that makes each program unique. Each program has attracted its accolytes, and their requests have driven the development of the program. Whether to include a scale legend should be up to the program authors, based on input from their users. If it was as important as Bob implies, it ought to be a most-requested feature, and given how easy it would be to implement, it would already be there. That it isn't in WinAPRS speaks volumes for the user's opinion of how important this feature is!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 18 23:24:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA27652
for <lyris.aprsspec@tapr.org>; Thu, 18 May 2000 23:23:57 -0500 (CDT)
Message-ID: <LYR11589-84744-2000.05.18-23.25.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-84684-2000.05.18-15.36.11--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] New Protocol??
Date: Thu, 18 May 2000 21:23:12 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <025501bfc149\$f2ac1340\$0b94b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id XAA27652

Bob, are all these packets supposed to be parse-able?

Look particularly at the objects.

```
2000 5 19 2 48 0 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190247z3949.27N/
08411.34Wv358/054/APRS/good RMC Fix
  2000 5 19 2 48 4 WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:@190247z3949.27N/
08411.34Wv358/054/APRS/good RM# Fix
  2000 5 19 2 54 30 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190253z3951.85N/
08414.91Wv269/060/APRS/good RMC Fix
  2000 5 19 2 55 1 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190238z3944.25N/
08412.33Wv177/015/APRS/good RMC Fix
  2000 5 19 2 55 15 WB4APR-9>APR840,NK8X-9*,WIDE,WIDE:>181320zenroute dayton
  2000 5 19 2 57 9 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190255z3951.64N/
08416.33Wv253/056/APRS/good RMC Fix
  2000 5 19 2 57 9 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N/
0842560 WH000/000/Days inn
  2000 5 19 2 57 47 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N/
0842560 WH000/000/Days inn
  2000 5 19 2 58 17 WB4APR-9>APR840,RELAY,W8APR,WIDE*/V:@190257z3951.31N/
08419.42Wv269/056/APRS/good RMC Fix
  2000 5 19 2 59 13 WB4APR-9>APR840,NK8X-9,KC8HFX-10*,WIDE:@190239z3943.96N/084)2.
6Wv171/000/APRS/good RMC Fix
  2000 5 19 3 1 32 WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:;!PQMmotel*290257z3950.6 N/
04425..1WH000/000/Days inn
  2000 5 19 3 1 46 WB4APR-9>APR840,N8UR,WIDE*,WIDE/V:@190301z3951.38N/
08423.45Wv275/051/APRS/good RMC Fix
  2000 5 19 3 7 42 WB4APR-9>APR840,KC8HFX-10,KG9CN-10,KC6ETE-3*:@190307z3950.63N/
08425.50Wv265/012/APRS/good RMC Fix
  2000 5 19 3 8 9 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190241z3944.57N/
08412.28Wv359/049/APRS/good RMC Fix
  2000 5 19 3 8 29 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190307z3950.63N/
08425.50Wv265/012/APRS/good RMC Fix
  2000 5 19 3 13 13 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190242z3945.27N/
08412.23Wv021/047/APRS/good RMC Fix
  2000 5 19 3 13 35 WB4APR-9>APR840,W8APR,WIDE*,WIDE:@190242z3945.27N/
08412.23Wv021/047/APRS/good RMC Fix
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 19 03:10:19 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA02601
for <lyris.aprsspec@tappr.org>; Fri, 19 May 2000 03:10:15 -0500 (CDT)
Message-ID: <LYR11589-84777-2000.05.19-03.12.00--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 19 May 2000 09:10:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: New Protocol??
References: <LYR11585-84684-2000.05.18-15.36.11--
bhildebrand#earthlink.net@lists.tappr.org>
<LYR14779-84744-2000.05.18-23.25.33--Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-84744-2000.05.18-23.25.33--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <\$t\$JsBA1bPJ5EwA9@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-84744-2000.05.18-23.25.33--
Ian.Wade#care4free.net@lists.tappr.org>, Brent
Hildebrand <bhildebrand@earthlink.net> writes
>Bob, are all these packets supposed to be parse-able?
>Look particularly at the objects.
>
>2000 5 19 2 48 0 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190247z3949.27N/08411.34Wv3
>58/054/APRS/good RMC Fix
> 2000 5 19 2 48 4 WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:@190247z3949.27N/08411.34
>Wv358/054/APRS/good RM# Fix
> 2000 5 19 2 54 30 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190253z3951.85N/08414.91W
>v269/060/APRS/good RMC Fix
> 2000 5 19 2 55 1 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190238z3944.25N/08412.33Wv177
>/015/APRS/good RMC Fix
> 2000 5 19 2 55 15 WB4APR-9>APR840,NK8X-9*,WIDE,WIDE:>181320zenroute dayton
> 2000 5 19 2 57 9 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190255z3951.64N/08416.33Wv
>253/056/APRS/good RMC Fix
> 2000 5 19 2 57 9 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N/
>0842560 WH000/000/Days inn
> 2000 5 19 2 57 47 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N
>/0842560 WH000/000/Days inn
> 2000 5 19 2 58 17 WB4APR-9>APR840,RELAY,W8APR,WIDE*/V:@190257z3951.31N/08419.42
>Wv269/056/APRS/good RMC Fix

```

> 2000 5 19 2 59 13 WB4APR-9>APR840,NK8X-9,KC8HFX-10*,WIDE:@190239z3943.96N/084)2
>. 6Wv171/000/APRS/good RMC Fix
> 2000 5 19 3 1 32 WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:;!PQMmotel*290257z3950.6
>N/04425..1WH000/000/Days inn
> 2000 5 19 3 1 46 WB4APR-9>APR840,N8UR,WIDE*,WIDE/V:@190301z3951.38N/08423.45Wv2
>75/051/APRS/good RMC Fix
> 2000 5 19 3 7 42 WB4APR-9>APR840,KC8HFX-10,KG9CN-10,KC6ETE-3*:@190307z3950.63N/
>08425.50Wv265/012/APRS/good RMC Fix
> 2000 5 19 3 8 9 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190241z3944.57N/08412.28Wv359/
>049/APRS/good RMC Fix
> 2000 5 19 3 8 29 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190307z3950.63N/08425.50Wv
>265/012/APRS/good RMC Fix
> 2000 5 19 3 13 13 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190242z3945.27N/08412.23Wv02
>1/047/APRS/good RMC Fix
> 2000 5 19 3 13 35 WB4APR-9>APR840,W8APR,WIDE*,WIDE:@190242z3945.27N/08412.23Wv0
>21/047/APRS/good RMC Fix

```

They all look OK to me, except #s 7, 8, 10, 11:

```

~~~~~
APRSDEC. APRS Packet Decoder.
Version 1.0.1b (5 May 2000)
by Ian Wade, G3NRW (g3nrw@arrl.net)

```

```

Runtime      = 19-May-2000  08:59:53
Input file   = brentpkt.txt
Output file  = brent.out

```

NOTE: If this report contains anything that you think is incorrect,
please email it to g3nrw@arrl.net for investigation. Thank you.

```

-----
Record # 1
WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190247z3949.27N/08411.34Wv358/054/APRS/good
RMC Fix
APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 47mins UTC
Lat= 39 deg 49 min 16 sec N    Long= 84 deg 11 min 20 sec W
Icon= Van    Overlay= (none)
Course= 358 deg  Speed=  54 knots ( 62 mph)

```

```

-----
Record # 2
WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:@190247z3949.27N/08411.34Wv358/054/APRS/good
RM# Fix
APRS Data Type= Posit w/ time. With APRS

```

Day=19 Time=02hrs 47mins UTC
Lat= 39 deg 49 min 16 sec N Long= 84 deg 11 min 20 sec W
Icon= Van Overlay= (none)
Course= 358 deg Speed= 54 knots (62 mph)

Record # 3

WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190253z3951.85N/08414.91Wv269/060/APRS/good
RMC Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 53mins UTC
Lat= 39 deg 51 min 51 sec N Long= 84 deg 14 min 55 sec W
Icon= Van Overlay= (none)
Course= 269 deg Speed= 60 knots (69 mph)

Record # 4

WB4APR-9>APR840,RELAY,WIDE,WIDE:@190238z3944.25N/08412.33Wv177/015/APRS/good RMC
Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 38mins UTC
Lat= 39 deg 44 min 15 sec N Long= 84 deg 12 min 20 sec W
Icon= Van Overlay= (none)
Course= 177 deg Speed= 15 knots (17 mph)

Record # 5

WB4APR-9>APR840,NK8X-9*,WIDE,WIDE:>181320zenroute dayton

APRS Data Type= Status
Day=18 Time=13hrs 20mins UTC

Record # 6

WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190255z3951.64N/08416.33Wv253/056/APRS/good
RMC Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 55mins UTC
Lat= 39 deg 51 min 38 sec N Long= 84 deg 16 min 20 sec W
Icon= Van Overlay= (none)
Course= 253 deg Speed= 56 knots (64 mph)

Record # 7

WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N/0842560WH000/000/
Days inn

APRS Data Type= Object
Object Name= APRSmotel (Live)
Day=19 Time=02hrs 54mins UTC

Lat= 39 deg 50 min 41 sec N Long=INVALID LONG
Icon= Num Circle 0 Overlay= (none)

Record # 8

WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:;APRSmotel*190254z3950.69N/0842560WH000/000/
Days inn
APRS Data Type= Object
Object Name= APRSmotel (Live)
Day=19 Time=02hrs 54mins UTC
Lat= 39 deg 50 min 41 sec N Long=INVALID LONG
Icon= Num Circle 0 Overlay= (none)

Record # 9

WB4APR-9>APR840,RELAY,W8APR,WIDE*/V:@190257z3951.31N/08419.42Wv269/056/APRS/good
RMC Fix
APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 57mins UTC
Lat= 39 deg 51 min 19 sec N Long= 84 deg 19 min 25 sec W
Icon= Van Overlay= (none)
Course= 269 deg Speed= 56 knots (64 mph)

Record # 10

WB4APR-9>APR840,NK8X-9,KC8HFX-10*,WIDE:@190239z3943.96N/084)2.6Wv171/000/APRS/good
RMC Fix
APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 39mins UTC
Lat= 39 deg 43 min 58 sec N Long= 84 deg 0 min 4 sec (** BAD E/W INDICATOR)
Icon= Num Circle 1 Overlay= (none)

Record # 11

WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:;!PQMmotel*290257z3950.6N/04425..1WH000/000/
Days inn
APRS Data Type= Object
Object Name= !PQMmotel (Live)
Day=29 Time=02hrs 57mins UTC
Lat= 39 deg 50 min 4 sec (** BAD N/S INDICATOR) Long=(** BAD DEG) 5 min 1
sec (** BAD E/W
INDICATOR)
Icon= Circle Overlay= 0

Record # 12

WB4APR-9>APR840,N8UR,WIDE*,WIDE/V:@190301z3951.38N/08423.45Wv275/051/APRS/good RMC
Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=03hrs 01mins UTC
Lat= 39 deg 51 min 23 sec N Long= 84 deg 23 min 27 sec W
Icon= Van Overlay= (none)
Course= 275 deg Speed= 51 knots (59 mph)

Record # 13

WB4APR-9>APR840,KC8HFX-10,KG9CN-10,KC6ETE-3*:@190307z3950.63N/08425.50Wv265/012/
APRS/good RMC

Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=03hrs 07mins UTC
Lat= 39 deg 50 min 38 sec N Long= 84 deg 25 min 30 sec W
Icon= Van Overlay= (none)
Course= 265 deg Speed= 12 knots (14 mph)

Record # 14

WB4APR-9>APR840,RELAY,WIDE,WIDE:@190241z3944.57N/08412.28Wv359/049/APRS/good RMC
Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 41mins UTC
Lat= 39 deg 44 min 34 sec N Long= 84 deg 12 min 17 sec W
Icon= Van Overlay= (none)
Course= 359 deg Speed= 49 knots (56 mph)

Record # 15

WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190307z3950.63N/08425.50Wv265/012/APRS/good
RMC Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=03hrs 07mins UTC
Lat= 39 deg 50 min 38 sec N Long= 84 deg 25 min 30 sec W
Icon= Van Overlay= (none)
Course= 265 deg Speed= 12 knots (14 mph)

Record # 16

WB4APR-9>APR840,RELAY,WIDE,WIDE:@190242z3945.27N/08412.23Wv021/047/APRS/good RMC
Fix

APRS Data Type= Posit w/ time. With APRS
Day=19 Time=02hrs 42mins UTC
Lat= 39 deg 45 min 16 sec N Long= 84 deg 12 min 14 sec W
Icon= Van Overlay= (none)
Course= 021 deg Speed= 47 knots (54 mph)

Record # 17

WB4APR-9>APR840,W8APR,WIDE*,WIDE:@190242z3945.27N/08412.23Wv021/047/APRS/good RMC
Fix

APRS Data Type= Posit w/ time. With APRS

Day=19 Time=02hrs 42mins UTC

Lat= 39 deg 45 min 16 sec N Long= 84 deg 12 min 14 sec W

Icon= Van Overlay= (none)

Course= 021 deg Speed= 47 knots (54 mph)

+++++ END OF INPUT FILE +++++

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                  email: g3nrw@arrl.net                 |
|                                                         |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:      http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 19 08:19:56 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA23301

for <lyris.aprsspec@tapr.org>; Fri, 19 May 2000 08:19:54 -0500 (CDT)

Message-ID: <LYR11589-84802-2000.05.19-08.21.48--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Brent Hildebrand" <bhildebrand@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR11585-84684-2000.05.18-15.36.11--

bhildebrand#earthlink.net@lists.tapr.org><LYR14779-84744-2000.05.18-23.25.33--

Ian.Wade#care4free.net@lists.tapr.org> <LYR11585-84777-2000.05.19-03.12.00--

bhildebrand#earthlink.net@lists.tapr.org>

Subject: [aprsspec] Re: New Protocol??

Date: Fri, 19 May 2000 06:19:37 -0700

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <02dd01bfc194\$e2ef08e0\$0b94b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA23301

>

> They all look OK to me, except #s 7, 8, 10, 11:

>

<much deleted>

Yes, those were the objects. The others looked fine.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun May 21 23:49:08 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
 by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA29780
 for <lyris.aprsspec@tappr.org>; Sun, 21 May 2000 23:49:06 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 22 May 2000 00:46:44 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <200005182033.NAA20222@scaup.prod.itd.earthlink.net>
Message-ID: <LYR11589-85225-2000.05.21-23.50.30--
 lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005220022360.3498-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 18 May 2000, Steve Dimse wrote:

> I get the impression that if Bob could have his way, every program would
> look exactly like APRSdos, use the same keystroke combinations, the same
> maps.

NO, but I do expect that EVERY user looking at an area 32 miles around Dayton Hamvention for example on WHATEVER map or MAP system they are using, would all describe that "same" AREA that they see in the SAME way to a 3rd party.

It just amazes me that we have such strong objections to using the word "RANGE" to describe an ENGLISH term that means "an area 32 miles around the Dayton Hamvention".

I just cannot understand how anyone can missinterpret that. The word "around" even derives its meaning from the concept of a circle with a radius of that dimension.

> Yes, as he points out, it would make it easier for anyone to go
> into an EOC and start using their program regardless of whose version is
> installed. But is this homogeneity a Good Thing? I say not.

NO! It allows anyone on any communications channel to "describe" the "size" of what he is LOOKING at on HIS screen in an UNAMBIGUOUS way. It has NOTHING TO DO with what program he is using or how he uses it.

> The second APRS program out was MacAPRS, the third javAPRS. Neither of
> those two have ever had map scale.

And that is their number one failing when used in a cross platform, network of other users trying to communicate what they SEE on their maps. It is this total confusion and inability for a MAC/WIN user to describe what his view to a NON _MAC/WIN user that is driving this issue!

Mac/WinAPRS ALSO DO NOT DEFINE APRS either.

> In the 4 years since I first released javAPRS, I do not recall a single
> request for this scale legend.

I have been asking for it for over 4 years.

> I especially object to the requirement for a scale legend. By chance the
> map product I use the most (MapBlast) has this, but I cannot control it,
> and most other internet products do not contain it...

The failure of the pretty-map-makers to provide meaningful legends or quantifiable scale to the users should not DRIVE the design of APRS nor trap us into furthering this omission.

> nor is there any way for me to control most of the parameters Bob
> considers essential. For example, in the topo maps I can control the
> scale, but I cannot place a legend on the map, I cannot control the
> precise center, or even determine what it is.

You dont understand at all. I am in no way asking for anyone to control anything. I AM ONLY ASKING THAT ALL MAPS DISPLAY TO THE USER A COMMON METRIC that conveys to him the approximate CENTER and "extent" of each MAP view so that THAT user can DESCRIBE it to SOMEONE ELSE in a consistent, concise and unambiguous way that will be understood by all APRS users across all platforms, and all software.

If we AUTHORS cannot agree on a common basis then this is PROOF POSITIVE that our users will be hopelessly confused and be UNABLE to communicate their views across different systems and communications channels.

> Besides the underlying OS, the user interface is the thing that makes
> each program unique. Each program has attracted its accolytes, and their
> requests have driven the development of the program. Whether to include a
> scale legend should be up to the program authors, based on input from
> their users. If it was as important as Bob implies, it ought to be a
> most-requested feature, and given how easy it would be to implement, it
> would already be there. That it isn't in WinAPRS speaks volumes for the
> user's opinion of how important this feature is!

It could also be said that it speaks volumes of why we still have MANY people who are FULLY computer literate, and fully conversant with WIndows and state-of the art in GUI's who still use a CRUDE, OLD and ANTIQUATED program like APRSdos INSTEAD Of WinAPRS.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 21 23:56:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA02125
for <lyris.aprsspec@tapr.org>; Sun, 21 May 2000 23:56:31 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 22 May 2000 00:56:16 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: New Protocol??
In-Reply-To: <LYR11586-84744-2000.05.18-23.25.33--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-85227-2000.05.21-23.58.30--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005220053210.3498-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 18 May 2000, Brent Hildebrand wrote:

> Bob, are all these packets supposed to be parse-able?
> Look particularly at the objects.

Just got back from dayton and it s past midnight. Nothing jumps out as me
as being amiss other than the second one below.., can you give me a hint?

> 2000 5 19 2 57 47 WB4APR-9>APR840,W8APR,WIDE*,WIDE/
V:;APRSmotel*190254z3950.69N/0842560 WH000/000/Days inn
> 2000 5 19 3 1 32 WB4APR-9>APR840,NK8X-9,W8APR,WIDE*/V:;!PQMmotel*290257z3950.6
N/04425..1WH000/000/Days inn

Have no idea where this got garbled. but you wouldnt believe the QRM in
Dayton!

> 2000 5 19 3 7 42 WB4APR-9>APR840,KC8HFX-10,KG9CN-10,KC6ETE-3*:@190307z3950.63N/
08425.50Wv265/012/APRS/good RMC Fix
> 2000 5 19 3 8 9 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190241z3944.57N/
08412.28Wv359/049/APRS/good RMC Fix
> 2000 5 19 3 8 29 WB4APR-9>APR840,W8APR,WIDE*,WIDE/V:@190307z3950.63N/

08425.50Wv265/012/APRS/good RMC Fix
> 2000 5 19 3 13 13 WB4APR-9>APR840,RELAY,WIDE,WIDE:@190242z3945.27N/
08412.23Wv021/047/APRS/good RMC Fix
> 2000 5 19 3 13 35 WB4APR-9>APR840,W8APR,WIDE*,WIDE:@190242z3945.27N/
08412.23Wv021/047/APRS/good RMC Fix
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 22 00:05:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA09570
for <lyris.aprsspec@tapr.org>; Mon, 22 May 2000 00:05:54 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 22 May 2000 01:05:13 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: New Protocol??
In-Reply-To: <LYR11586-84744-2000.05.18-23.25.33--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-85243-2000.05.22-00.07.58--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005220100430.3498-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 18 May 2000, Brent Hildebrand wrote:

> Bob, are all these packets supposed to be parse-able?
> Look particularly at the objects.
>

```
::APRSmotel*190254z3950.69N/0842560 WH000/000/Days inn  
::APRSmotel*190254z3950.69N/0842560 WH000/000/Days inn  
:@190257z3951.31N/08419.42Wv269/056/APRS/good RMC Fix  
:@190239z3943.96N/084)2. 6Wv171/000/APRS/good RMC Fix  
:;!PQMmotel*290257z3950.6 N/04425..1WH000/000/Days inn
```

Nope, these are all garbles..

The objects are all the same packet. Cleary there are bit errors introduced by the "system" somewhere..

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 22 14:00:38 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA04309
for <lyris.aprsspec@tappr.org>; Mon, 22 May 2000 14:00:36 -0500 (CDT)
Message-Id: <LYR11589-85387-2000.05.22-14.02.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
Date: Mon, 22 May 2000 14:59:59 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200005221859.SAA26571@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

On 5/22/00 12:46 AM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

```
>> nor is there any way for me to control most of the parameters Bob
>> considers essential. For example, in the topo maps I can control the
>> scale, but I cannot place a legend on the map, I cannot control the
>> precise center, or even determine what it is.
>
>You dont understand at all. I am in no way asking for anyone to control
>anything. I AM ONLY ASKING THAT ALL MAPS DISPLAY TO THE USER A COMMON
>METRIC that conveys to him the approximate CENTER and "extent" of each MAP
>view so that THAT user can DESCRIBE it to SOMEONE ELSE in a consistent,
>concise and unambiguous way that will be understood by all APRS users
>across all platforms, and all software.
>
I think you didn't understand what I am saying. As a programmer, I have
no control over whether MapBlast, Topozone, or TIGER chooses to implement
something. Therefore you are excluding a bunch of potentially useful
sites and features from the internet system because they do not implement
the features you and a handful of others consider important.
```

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 22 15:35:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA07381
for <lyris.aprsspec@tapr.org>; Mon, 22 May 2000 15:35:33 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 22 May 2000 16:34:49 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More about Center and Range
In-Reply-To: <200005221859.SAA26571@www.findu.com>
Message-ID: <LYR11589-85409-2000.05.22-15.37.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005221629580.23483-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 22 May 2000, Steve Dimse K4HG wrote:

> >You dont understand at all. I am in no way asking for anyone to control
> >anything. I AM ONLY ASKING THAT ALL MAPS DISPLAY TO THE USER A COMMON
> >METRIC that conveys to him the approximate CENTER and "extent" of each MAP
> >view so that THAT user can DESCRIBE it to SOMEONE ELSE in a consistent,
> >concise and unambiguous way that will be understood by all APRS users
> >across all platforms, and all software.
> >
> I think you didn't understand what I am saying. As a programmer, I have
> no control over whether MapBlast, Topozone, or TIGER chooses to implement
> something. Therefore you are excluding a bunch of potentially useful
> sites and features from the internet system because they do not implement
> the features you and a handful of others consider important.

Yes, but cannot any application that uses one of these maps also display the center and range of the map, somehow? It does not have to be "on" or "in" the bitmap, it just has to be "associated" with the map view. When I say "legend" I am simply asking for a "note" somewhere, anywhere that conveys to the user the "size" and "location" of the map.

A map without a scale is just a pretty picture...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 23 00:23:47 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA29356
for <lyris.aprsspec@tappr.org>; Tue, 23 May 2000 00:23:47 -0500 (CDT)
Message-Id: <LYR11589-85504-2000.05.23-00.25.50--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: More about Center and Range
Date: Tue, 23 May 2000 01:23:32 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200005230523.FAA03235@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 5/22/00 4:34 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>> >You dont understand at all. I am in no way asking for anyone to control
>> >anything. I AM ONLY ASKING THAT ALL MAPS DISPLAY TO THE USER A COMMON
>> >METRIC that conveys to him the approximate CENTER and "extent" of each MAP
>> >view so that THAT user can DESCRIBE it to SOMEONE ELSE in a consistent,
>> >concise and unambiguous way that will be understood by all APRS users
>> >across all platforms, and all software.

>> >

>> I think you didn't understand what I am saying. As a programmer, I have
>> no control over whether MapBlast, Topozone, or TIGER chooses to implement
>> something. Therefore you are excluding a bunch of potentially useful
>> sites and features from the internet system because they do not implement
>> the features you and a handful of others consider important.

>

>Yes, but cannot any application that uses one of these maps also display
>the center and range of the map, somehow? It does not have to be "on" or
>"in" the bitmap, it just has to be "associated" with the map view. When I
>say "legend" I am simply asking for a "note" somewhere, anywhere that
>conveys to the user the "size" and "location" of the map.

>

No, in most cases it is not possible to determine the scale of these
internet maps. So I guess guess you want me to shut the whole thing
down...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 23 14:48:32 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28066
for <lyris.aprsspec@tappr.org>; Tue, 23 May 2000 14:48:31 -0500 (CDT)

Mime-Version: 1.0
X-Sender: mcmusick@mail.anet-stl.com
Message-Id: <LYR11589-85631-2000.05.23-14.50.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 23 May 2000 14:44:42 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mike Musick <mcmusick@anet-stl.com>
Subject: [aprsspec] Re: New Protocol??
Cc: Bob Bruninga <bruninga@nadn.navy.mil>
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <p04310100b5504761bf3b@[208.4.34.27]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>On Thu, 18 May 2000, Brent Hildebrand wrote:

>
>> Bob, are all these packets supposed to be parse-able?
>> Look particularly at the objects.
>>
>;APRSmotel*190254z3950.69N/0842560 WH000/000/Days inn
>;APRSmotel*190254z3950.69N/0842560 WH000/000/Days inn
>:@190257z3951.31N/08419.42Wv269/056/APRS/good RMC Fix
>:@190239z3943.96N/084)2. 6Wv171/000/APRS/good RMC Fix
>;!PQMmotel*290257z3950.6 N/04425..1WH000/000/Days inn
>
>Nope, these are all garbles..
>The objects are all the same packet. Cleary there are bit errors
>introduced by the "system" somewhere..

I was monitoring A LOT(!!!) of garbage packets, especially on Friday evening. We had a glitched tracker up north in constant keydown sending GPS output in converse mode. The WIDE would break through the mess, but otherwise it was a QRM nightmare.

But given the tremendous collision problem overall, is it possible that somebody who was digipeating had PASSALL turned on? I've never used PASSALL, but I have to wonder if this function will put good checksums on bad packets if they're digi'ed.

...mike

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 23 18:36:51 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA17944
for <lyris.aprsspec@tappr.org>; Tue, 23 May 2000 18:36:50 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 23 May 2000 19:36:33 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Re: New Protocol??
In-Reply-To: <p04310100b5504761bf3b@[208.4.34.27]>
Message-ID: <LYR11589-85667-2000.05.23-18.38.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005231934240.15441-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 23 May 2000, Mike Musick wrote:

> But given the tremendous collision problem overall, is it possible
> that somebody who was digipeating had PASSALL turned on? I've never
> used PASSALL, but I have to wonder if this function will put good
> checksums on bad packets if they're digi'ed.

You bet! if any digi anywhere has PASSALL on, it is an absolute disaster,
and you cannot find the culprit! The only way to find it is to build
specific hard-coded DIGI calls, one at a time through all digis in an area
and hope that this way you can slowly but surely identify the bad one.

Yes, the packets will have GOOD CRC's after being digiepated... :-(

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 25 09:30:28 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA29340
for <lyris.aprsspec@tappr.org>; Thu, 25 May 2000 09:30:26 -0500 (CDT)
Message-ID: <LYR11589-86290-2000.05.25-09.31.30--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Thu, 25 May 2000 15:28:16 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Yet another Kenwood bug?
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <EhEHfLAAiTL5Ew2z@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Browsing through some IGate output, I see a lot of packets apparently from Kenwood D700s, looking something like this:

```
@242035z0123.45N/01234.56W>291/006/TM-D7/M3/RETURNING]"5#}TM-D700 & GPS-45  
A=000338
```

~~~~~

~~~~~

Is the comment field (following "...291/006") generated automatically?

The encoded altitude "5#}" decodes to 338 feet.

The very last item of data appears to be the same altitude, in plain text.

However, it isn't the altitude, as they omitted the slash before the "A=".

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+  
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |  
| email: g3nrw@arrl.net |
```

```
|
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html|
| APRS DECODER:        http://www.netro.co.uk/aprs.htm          |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 25 13:33:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA03601
for <lyris.aprsspec@tapr.org>; Thu, 25 May 2000 13:33:22 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 25 May 2000 14:32:03 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Yet another Kenwood bug?
In-Reply-To: <LYR11586-86290-2000.05.25-09.31.30--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-86358-2000.05.25-13.35.09--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10005251416120.7006-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 25 May 2000, Ian Wade wrote:

```
> Browsing through some IGate output, I see a lot of packets apparently from
> Kenwood D700s, looking something like this:
>
> @242035z0123.45N/01234.56W>291/006/TM-D7/M3/
> RETURNING]"5#}TM-D700 & GPS-45 A=000338
>          ^^^^^          ^^^^^^^
> Is the comment field (following "...291/006") generated automatically?
> The encoded altitude "5#}" decodes to 338 feet.
> The very last item of data appears to be the same altitude, in plain text.
> However, it isn't the altitude, as they omitted the slash before the "A=".
```

What you are seeing is a Mic-E "converted" packet. We have no idea who converted it, and everyone does it differently to get the embedded control characters though APRSServe as printable ASCII.

I fought this battle over and over with Steve. Remember, I wanted a STANDARD conversion of the Mic-E format by ALL I-gates to a CONSISTENT format. It gave a consistent format for further parsing AND it gave a one BYTE identifier as to WHO's software did the conversion! Thus we had all we needed for CONSISTENT parsing AND future troubleshooting...

Now every author's software converts it DIFFERENTLY before sending it on (in 7 bit printable ASCII) to APRSServe. Thus you have no way of parsing it consistently. Since the ALTITUDE is now added as the first 4 bytes of the STATUS text portion, then where it will be in the Mic-E "converted" format via APRSServe, depends only on which author converted it.

I think this is stupid and will just be a forever problem. I published to ALL authors the recommended standard conversion format. Steve was the big objector to any standardization. Now that he is gone, maybe we can bring this back up and get agreement.

There are now 6 different versions of Mic-E devices transmitting Mic-E and how many different IGate softwares converting them to how many different formats. Let's say 6. Thus we have 36 different possible formats... all for the same information. Darn it, we need a STANDARD!

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 25 14:25:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA04171
for <lyris.aprsspec@tapr.org>; Thu, 25 May 2000 14:25:38 -0500 (CDT)
Message-Id: <LYR11589-86369-2000.05.25-14.27.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Thu, 25 May 2000 12:23:55 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] Re: Yet another Kenwood bug?

In-Reply-To: <LYR11639-86290-2000.05.25-09.31.30--ke6afe#arrrl.net@lists.taprr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

List-Unsubscribe: <mailto:leave-aprrspec-11589P@lists.taprr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprrspec@lists.taprr.org>

List-Owner: <mailto:owner-aprrspec@lists.taprr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.taprr.org>

X-Message-Id: <4.3.2.7.2.20000525120256.00ba0d00@mail.cruzio.com>

Sender: bounce-aprrspec-11589@lists.taprr.org

Precedence: bulk

At 07:28 AM 5/25/2000, Ian Wade wrote:

>The very last item of data appears to be the same altitude, in plain text.
>

>However, it isn't the altitude, as they omitted the slash before the "A=".

Needing a "/" before the "A=" is news to me. We've been using "A=aaaaaa" for the altitude display in APRSdos for some time and I didn't know that. Not sure the "/" is needed in APRSdos. Do other flavors use the "A=aaaaaa" for display at all yet? Hope so. Guess I should have read page 25 of the aprs101m.pdf proposal more carefully.

73, Cap KE6AFE

--

Cap Pennell

Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]

email: cap@cruzio.com home page: http://members.cruzio.com/~cap

packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprrspec@taprr.org

To unsubscribe send a blank email to leave-aprrspec-11589P@lists.taprr.org

From bounce-aprrspec-11589@lists.taprr.org Thu May 25 14:42:03 2000

Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])

by taprr.org (8.9.3/8.9.3/1.13) with SMTP id OAA13023

for <lyris.aprrspec@taprr.org>; Thu, 25 May 2000 14:42:02 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 25 May 2000 15:41:08 -0400 (EDT)

From: Bob Bruninga <bruninga@nadn.navy.mil>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprrspec@lists.taprr.org>

cc: APRS Spec Discussion List <aprrspec@lists.taprr.org>

Subject: [aprrspec] Re: Yet another Kenwood bug?

In-Reply-To: <LYR11586-86369-2000.05.25-14.27.48--

bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-86373-2000.05.25-14.44.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005251540480.7006-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 25 May 2000, Cap Pennell wrote:

> Needing a "/" before the "A=" is news to me. We've been using "A=aaaaaa"
> for the altitude display in APRSdos for some time and I didn't know
> that. Not sure the "/" is needed in APRSdos.

Yep... Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 25 14:59:11 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA24936
for <lyris.aprsspec@tappr.org>; Thu, 25 May 2000 14:59:04 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 25 May 2000 15:58:47 -0400 (EDT)
From: Bob Bruninga <bruninga#nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Yet another Kenwood bug?
In-Reply-To: <LYR11586-86358-2000.05.25-13.35.09--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-86378-2000.05.25-15.01.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005251550460.7006-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

My apologies, I thought I was responding privately to the APRS Working Group. Even so, I always welcomed Steve's opinions, because the ensuing discussions were the only way to hammer out ideas and arrive at what we think is the best way to do things.

He had good points about how hard it was to standardise on the growing plethora of Mic-E implementations and how there was no perfect solution..

This was not intended to denigrate those discussions.
Bob

On Thu, 25 May 2000, Bob Bruninga wrote:

> What you are seeing is a Mic-E "converted" packet. We have no idea who
> converted it, and everyone does it differently to get the embedded control
> characters though APRSServe as printable ASCII.
>
> I fought this battle over and over with Steve.
> Remember, I wanted a STANDARD conversion of the Mic-E format by ALL Igates
> to a CONSISTENT format. It gave a consistent format for further parsing
> AND it gave a one BYTE identifier as to WHO's software did the conversion!
> Thus we had all we needed for CONSISTENT parsing AND future
> troubleshooting...
>
> Now every authors software converts it DIFFERENTLY before sending
> it on (in 7 bit printable ASCII) to APRSServe. Thus you have no way of
> parsing it consistently. Since the ALTITUDE is now added as the first 4
> bytes of the STATUS text portion, then where it will be in the Mic-E
> "converted" format via APRSServe, depends only on which author converted
> it.
>
> I think this is stupid and will just be a forever problem. I published to
> ALL authors the recommended standard conversion format. Steve was the big
> objector to any standardization....

etc...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 25 18:27:34 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26938
for <lyris.aprsspec@tappr.org>; Thu, 25 May 2000 18:27:23 -0500 (CDT)
Message-ID: <LYR11589-86425-2000.05.25-18.29.24--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: <aprsspec@lists.tappr.org>
References: <LYR11585-86358-2000.05.25-13.35.09--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Yet another Kenwood bug?
Date: Thu, 25 May 2000 16:26:27 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <013101bfc6a0\$a73b1f80\$6d95b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id SAA26938

Actually, I don't like your standard either. Not that it would not work, but it is unnecessary. A simple fix would have been to encode Mic-E packets using an Internet standard such as Base64. And decode it at the IGate. Then you have the ORIGINAL packet, not some cooked up packet. But that has not won any favor either. My proposal was something like this: The converted packet would be CALLSIGN>BASE64:base64_encoded_data_goes here.

Example:

Original packet:

KF6VMM-9>S4PTQR,N6EX-3*,WIDE2-1/1:'-He1R">/]"6o}

Encoded packet on TCP/IP:

KH2Z>BASE64:S0Y2Vk1NLTK+UzRQVFFSLE42RVgtMyosV0lERTItMS8x0ictSGVsUh8+L10iNm99

To decode, you see that the packet is to BASE64, so, take the data portion, and reverse the Base64 and you get:

KF6VMM-9>S4PTQR,N6EX-3*,WIDE2-1/1:'-He1R">/]"6o}

No loss of data. No funky conversion packet. Original data on the Far Side.

What about gating the packet to RF should that be required? Strip out the excess path, and make it a gated packet. Here would be the data portion.

```
}KF6VMM-9>S4PTQR:'-He1R">/] "6o}
```

Brent

----- Original Message -----

From: Bob Bruninga <bruninga@nadn.navy.mil>

To: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Cc: <aprsspec@lists.tapr.org>

Sent: Thursday, May 25, 2000 11:32 AM

Subject: [aprsspec] Re: Yet another Kenwood bug?

> On Thu, 25 May 2000, Ian Wade wrote:

>

> > Browsing through some IGate output, I see a lot of packets apparently from
> > Kenwood D700s, looking something like this:

> >

> > @242035z0123.45N/01234.56W>291/006/TM-D7/M3/

> > RETURNING]"5#}TM-D700 & GPS-45 A=000338

> > ^^^^ ^^^^^^^^

> > Is the comment field (following "...291/006") generated automatically?

> > The encoded altitude "5#}" decodes to 338 feet.

> > The very last item of data appears to be the same altitude, in plain text.

> > However, it isn't the altitude, as they omitted the slash before the "A=".

>

> What you are seeing is a Mic-E "converted" packet. We have no idea who
> converted it, and everyone does it differently to get the embedded control
> characters though APRSServe as printable ASCII.

>

> I fought this battle over and over with Steve.

> Remember, I wanted a STANDARD conversion of the Mic-E format by ALL Igates

> to a CONSISTENT format. It gave a consistent format for further parsing

> AND it gave a one BYTE identifier as to WHO's software did the conversion!

> Thus we had all we needed for CONSISTENT parsing AND future

> troubleshooting...

>

> Now every authors software converts it DIFFERENTLY before sending

> it on (in 7 bit printable ASCII) to APRSServe. Thus you have no way of

> parsing it consistently. Since the ALTITUDE is now added as the first 4

> bytes of the STATUS text portion, then where it will be in the Mic-E

> "converted" format via APRSServe, depends only on which author converted

> it.

>

> I think this is stupid and will just be a forever problem. I published to
> ALL authors the recommended standard conversion format. Steve was the big
> objector to any standardization. Now that he is gone, maybe we can bring
> this back up and get agreement.
>
> There are now 6 different version of Mic-E devices transmitting Mic-E and
> how many different IGate softwares converting them to how many different
> formats. Lets say 6. THus we have 36 different possible formats... all
> for the same information. Darn it, we need a STANDARD!
>
> de WB4APR, Bob
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 25 19:27:28 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA12887
for <lyris.aprsspec@tappr.org>; Thu, 25 May 2000 19:27:25 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 25 May 2000 20:26:43 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Yet another Kenwood bug?
In-Reply-To: <LYR11586-86425-2000.05.25-18.29.24--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-86436-2000.05.25-19.29.16--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005252023170.22450-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 25 May 2000, Brent Hildebrand wrote:

> Actually, I don't like your standard either. Not that it would not
> work, but it is unnecessary. A simple fix would have been to encode
> Mic-E packets using an Internet standard such as Base64. And decode it
> at the IGate. Then you have the ORIGINAL packet, not some cooked up
> packet. But that has not won any favor either...

I never cared what the format was as long as we had a standard. Your proposal above is not backwards compatible with any existing software. It would require a mod to all user software for anyone looking at the APRServe stream. But since those same software are the basic engines for the IGates, I do think it could be phased in quickly...

So I am not opposed to it. But we just need everyone to implement it in one common manner...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 25 19:52:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA18656
for <lyris.aprsspec@tapr.org>; Thu, 25 May 2000 19:51:57 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-86438-2000.05.25-19.54.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 25 May 2000 20:52:27 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Yet another Kenwood bug?
References: <LYR11601-86436-2000.05.25-19.29.16--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <392DCACA.4DE45800@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Thu, 25 May 2000, Brent Hildebrand wrote:
>
> A simple fix would have been to encode
> > Mic-E packets using an Internet standard such as Base64. And decode it
> > at the IGate. Then you have the ORIGINAL packet, not some cooked up
> > packet. But that has not won any favor either...
>
> I never cared what the format was as long as we had a standard. Your
> proposal above is not backwards compatible with any existing software.

I'd rather see ONE standard that made sense then a tower of Bable that may result. I've looked at the spec, and in almost every case there appears to be multiple ways to do the same thing. I believe positions can be represented in at least four or five different ways, weather in at least that many ways and who knows what else.

As any programmer knows, trying to write parsing routines for multiple formats is more then trivial. While what's done is done, for the future the WG might consider picking the best format and making that the "must have" standard instead of continuing the dilution of the protocol. ONE standard, not the mish-mash of four+ ways to say the same thing. Just suggest one method, in the spec doc, instead of giving equal footing to all methods.

I like the idea of a base 64 standard as it is "C" friendly and should be able to be implemented on most small microcontrollers. While the compressed format is a nice size reduction, the algorithms needed to convert to it are not very microcontroller friendly (floating point and/or double longs). But I'll take compressed over NEMA any day ;-)

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 25 20:09:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA22482
for <lyris.aprsspec@tapr.org>; Thu, 25 May 2000 20:09:21 -0500 (CDT)
Message-ID: <LYR11589-86448-2000.05.25-20.11.35--
lyris.aprsspec@tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-86436-2000.05.25-19.29.16--
bhildebrand@earthlink.net>
Subject: [aprsspec] Re: Yet another Kenwood bug?
Date: Thu, 25 May 2000 18:08:44 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <019801bfc6ae\$f14b0d20\$6d95b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA22482

Well, after some simple tests, APRSd does indeed pass 8-bit data, having passed successfully the top 50 ASCII characters in, and getting them back exactly as entered. Thus it appears, that APRSd does not have the APRServe limitation. But we still have a mixed system of APRServe and APRSd. So encoding is still required. My vote would be for a simple Base64 encoding. This will work for APRServe and APRSd. It will also pass the callsign of the originating station, something that is not present currently. Of course, not all packets need encoding. This is what I would propose:

CALLSIGN>BASE64:base64_encoded_data

CALLSIGN is the callsign of the station entering the data to APRServe

BASE64 indicates the data is Base64 encoded
base64_encoded_data is the data in Base64 format

To reverse the process, receiving station detects the fact that the TO field is BASE64. It then takes the data portion of the packet and UNBASE64s it and runs it back through their parser. No data loss. Works with APRServe and APRSd now.

Brent

----- Original Message -----

From: Bob Bruninga <bruninga@nadn.navy.mil>
To: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Sent: Thursday, May 25, 2000 5:26 PM
Subject: [aprsspec] Re: Yet another Kenwood bug?

> On Thu, 25 May 2000, Brent Hildebrand wrote:

>

> > Actually, I don't like your standard either. Not that it would not
> > work, but it is unnecessary. A simple fix would have been to encode
> > Mic-E packets using an Internet standard such as Base64. And decode it
> > at the IGate. Then you have the ORIGINAL packet, not some cooked up
> > packet. But that has not won any favor either...

>

> I never cared what the format was as long as we had a standard. Your
> proposal above is not backwards compatible with any existing software.
> It would require a mod to all user software for anyone looking at the
> APRServe stream. But since those same software are the basic engines for
> the IGates, I do think it could be phased in quickly...

>

> So I am not opposed to it. But we just need everyone to implement it in
> one common manner...

>

> Bob

>

>

>

> ---

> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 26 08:23:43 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA12824
for <lyris.aprsspec@tappr.org>; Fri, 26 May 2000 08:23:36 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 26 May 2000 09:23:04 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Transparent FORMAT
In-Reply-To: <017601bfc6ab\$10deb000\$6d95b3d1@celeron>
Message-ID: <LYR11589-86575-2000.05.26-08.25.42--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10005260917540.7914-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 25 May 2000, Brent Hildebrand wrote:

> Bob Said:
> > I never cared what the format was as long as we had a standard. Your
> > proposal above is not backwards compatible....
> > But since those same software are the basic engines for
> > the IGates, I do think it could be phased in quickly...
> > So I am not opposed to it. But we just need everyone to implement it in
> > one common manner...
>
> Not backward compatible? Who cares? By your own account, everything
> needs to be changed anyway. Let's do it in a way that can fix the
> APRServe binary problem for good. Hmm, I wonder if APRSd talks 7 or 8
> bit. Off to test.

Actually, I am beginning to like the idea of a standard BINARY to 7 bit
ASCII conversion that will suit ALL applications. All we need to do is
specify an as yet-unused FORMAT character and it simply indicates that ALL
that follows is a converted packet.

Then everyone uses only the one standard DECODE routine to convert it back

to the original packet no matter what it is... End of all problems.

Did your proposal already pick out a FORMAT character?

de WB4APR.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 08:27:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA13610
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 08:27:38 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 26 May 2000 09:27:29 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Yet another Kenwood bug?
In-Reply-To: <018401bfc6ae\$4ee98840\$6d95b3d1@celeron>
Message-ID: <LYR11589-86576-2000.05.26-08.29.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005260924270.7914-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I like it. Looks good to me!

My idea preserved the original header and so can go over RF too.

But I think yours also is fully AX.25 compliant in KISS mode. Right?

In the below example the only difference would be that there will be DIGI
peater fields. But I think that is consistent with what you designed...

So if thats the case, I think yours wins...

Does anyone else see a problem?

DE wb4apr

On Thu, 25 May 2000, Brent Hildebrand wrote:

```
> CALLSIGN>BASE64:base64_encoded_data
>
> CALLSIGN is the callsign of the station entering the data to APRServe
> BASE64 indicates the data is Base64 encoded
> base64_encoded_data is the data in Base64 format
>
> To reverse the process, receiving station detects the fact that the T0 field is
BASE64. It then takes the data portion of the packet and UNBASE64s it and runs it
back through their parser. No data loss. Works with APRServe and APRSd now.
>
> Brent
>
>
> ----- Original Message -----
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> To: APRS Spec Discussion List <aprsspec@lists.tapir.org>
> Cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
> Sent: Thursday, May 25, 2000 5:26 PM
> Subject: [aprsspec] Re: Yet another Kenwood bug?
>
>
> > On Thu, 25 May 2000, Brent Hildebrand wrote:
> >
> > > Actually, I don't like your standard either. Not that it would not
> > > work, but it is unnecessary. A simple fix would have been to encode
> > > Mic-E packets using an Internet standard such as Base64. And decode it
> > > at the IGate. Then you have the ORIGINAL packet, not some cooked up
> > > packet. But that has not won any favor either...
> >
> > I never cared what the format was as long as we had a standard. Your
> > proposal above is not backwards compatible with any existing software.
> > It would require a mod to all user software for anyone looking at the
> > APRServe stream. But since those same software are the basic engines for
> > the IGates, I do think it could be phased in quickly...
> >
> > So I am not opposed to it. But we just need everyone to implement it in
> > one common manner...
> >
> > Bob
> >
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
> >
```

> >
>
>

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 10:59:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25105
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 10:59:08 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 26 May 2000 11:58:21 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Transparent FORMAT
In-Reply-To: <003e01bfc716\$b21cc0e0\$fa92b3d1@celeron>
Message-ID: <LYR11589-86600-2000.05.26-11.00.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005261157170.7914-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 26 May 2000, Brent Hildebrand wrote:

> Format character? No. It keyed off the T0 field as this was data only
being dealt with via APRSServe. In this way, you knew the IGate station
something we don't know now. And you reproducibly sent any binary data

through APRServe, with path and data preserved. It is not intended to be on the air.

I'd prefer to see something that can be used anywhere transparently. But I think yours will do that as well. right?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 11:10:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27069
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 11:10:45 -0500 (CDT)
Message-ID: <LYR11589-86604-2000.05.26-11.13.01--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Transparent FORMAT
Date: Fri, 26 May 2000 09:10:31 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001601bfc72d\$06f2e2a0\$b394b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>On Fri, 26 May 2000, Brent Hildebrand wrote:

>

> > Format character? No. It keyed of the T0 field as this was data only
> being dealt with via APRServe. In this way, you knew the IGate station

> something we don't know now. And you reproducibly sent any binary data
> through APRServe, with path and data preserved. It is not intended to be
> on the air.
>
>I'd prefer to see something that can be used anywhere transparently. But
>I think yours will do that as well. right?
>
>Bob

Anywhere? I suppose if you add a digipeater path. But converting a packet to Base64 does increase its length a far bit (pun sort of intended), and the RF network can handle 8-bit. APRServe can not. My suggestion is really for the TCP/IP side. But I'm open to suggestions.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 11:52:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA09458
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 11:52:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 26 May 2000 12:51:55 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Transparent FORMAT
In-Reply-To: <001601bfc72d\$06f2e2a0\$b394b3d1@laptop233>
Message-ID: <LYR11589-86620-2000.05.26-11.54.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10005261247210.7914-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 26 May 2000, Brent Hildebrand wrote:

> >I'd prefer to see something that can be used anywhere transparently. But
> >I think yours will do that as well. right?
>
> Anywhere? I suppose if you add a digipeater path. But converting a packet
> to Base64 does increase its length a far bit (pun sort of intended), and the
> RF network can handle 8-bit. APRServe can not. My suggestion is really for
> the TCP/IP side. But I'm open to suggestions.

Yep, I agree that it would be verbose, and no obvious need on RF. But I just figured we should not preclude that option. And I think you are saying that it will work there fine (with the digis included). I guess the expansion ratio is 2 bits per byte or about a 25% expansion? Or did I figger that wrong?

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 12:17:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA15889
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 12:17:49 -0500 (CDT)
Message-ID: <LYR11589-86623-2000.05.26-12.20.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 26 May 2000 13:16:00 -0400
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Spec for Band ID needed
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <392EB150.331FE181@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I thought that I'd just put a bug in the ear of the folks who are in control of this sort of thing, that -- especially with the discussion of finding an APRS Service frequency on bands other than 2-meters, from a tactical and emergency/safety issue -- it will become imperative that some sort of "band of origination" flag be included in the protocol (even if it is simply added by GATEs during the process of GATE-ing).

Imagine seeing an emergency or health/welfare message coming across a screen and attempting to DF it using conventional DF techniques, not being able to do so because it originated on 10-meters or 6-meters or 440-MHz and was transparently GATED to 2-meters.

I know there are plenty of irons in the fire, this is just a gentle reminder, that's all.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 26 15:34:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA18759
for <lyris.aprsspec@tapr.org>; Fri, 26 May 2000 15:34:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 26 May 2000 16:34:00 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Yet another Kenwood bug?
In-Reply-To: <LYR11586-86576-2000.05.26-08.29.53--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-86676-2000.05.26-15.36.28--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10005261626210.3737-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> On Thu, 25 May 2000, Brent Hildebrand wrote:
>
> > CALLSIGN>BASE64:base64_encoded_data
> >
> > CALLSIGN is the callsign of the station entering the data to APRServe
> > BASE64 indicates the data is Base64 encoded
> > base64_encoded_data is the data in Base64 format

I now realize I was mixing apples and oranges. The above packet is like 3rd party and the entire packet is base64 encoded. But since most of a packet is HEADER which is already all printable, this is somewhat inneffecient.

Im leaning back towards:

SENDER>TOCALL,PATH,PATH:|base_64_encoded data

Where "|" here is a special so-far-unused FORMAT IDENTIFIER that says "take everything following this as base_64 encoded copy of the original packet data field. We would not actually use the "|" character since it is a reserve character, I only used it as an example.

This is completly reversible at the IGATE->RF end...

What do you think?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 27 00:17:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA26813
for <lyris.aprsspec@tapr.org>; Sat, 27 May 2000 00:17:03 -0500 (CDT)
Message-Id: <LYR11589-86758-2000.05.27-00.19.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: halehome@mail
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 27 May 2000 01:18:02 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Darrell Hale <halehome@home.com>
Subject: [aprsspec] Center/Range Observations

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <2.2.32.20000527051802.00b5475c@mail>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello,

I just finished reading, in one sitting, the discussions that have resulted from the email "A Question about Map View and Range Scale" from Wed, 10 May 2000.

At the risk of (re)starting something, I wanted to make the following observations:

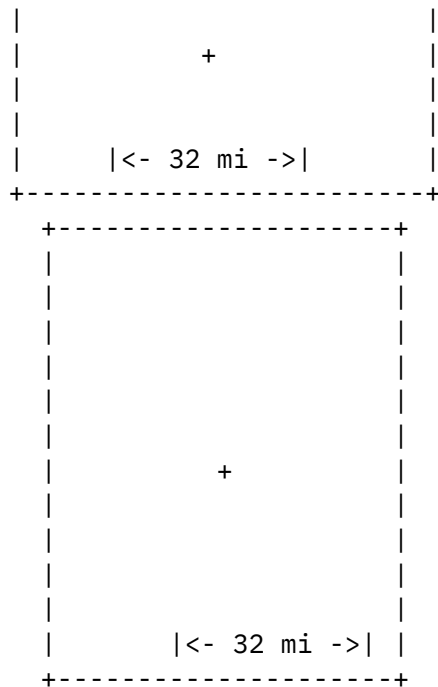
1) To me, the idea that the range circle is "the largest circle that can fit on the screen" is by definition only a minimal view of what can be seen on a display, since the display's height to width ratio will usually be different between any two users. Usually this should be "good enough" though since it estimates the bulk of what that the other person is seeing, and gaurantees that anything within the defined circle should be on both displays. The unclear parts will be the corners, and the edges perpendicular the the screen's long axis. If it's not clear that something would be in your range circle, then fix it by recentering the circle or changing the range so it will be encompassed.

2) Even if you were to specify a rectangle percicely, that is also not be enough to allow a perfect recreation of a view, esp. if the recreated view will be on a smaller screen, lower resolution display, or with a different aspect ratio.

You will never be able to transfer two views EQUALLY between the following two screens. The top view (below) has extra W/E advantage over the bottom's N/S advantage. A Palm Pilot's display may be able to fit on my home computer's 19" CRT, but never the other way around. Center/Range or Rectangles may only give the receiving station a feel for how big the other user's view is, but that is usually all that is needed. By comparing center and range scale info, two users can at least approximate what the other is seeing and therefore "get on the same page" as it were.

+

+



3) I would describe the difference between Bob's Range Scale and Street Atlas's distance (tick) scale this way:

Bob's range scale is always one-half of the distance along the map's shortest viewable axis.

Street Atlas's tick scale is simply the distance between the two vertical ticks on the |-----| graphic.

Using each requires a different technique: The Range Scale allows me to estimate distances by subdividing an overall number based on visually comparing relative segment lengths (ie: a distance that is about 75% that from the display center to the range circle, and given a 32 mile range scale, is about a 24 mile distance). The Street Atlas tick scale requires a cumulative addition of segments (ie: my index finger width for this particular screen is about one tick, the tick scale may be 0.2 miles, so a distance of about 13 fingers adds up to about 2.6 miles).

An on-screen click and drag caliper between two arbitrary points will always be the most accurate measurement of that distance. And it would be useful for estimating another user's range scale on the local map. But it is a poor tool to use if that is the only way available to generate my range scales for relaying to others, esp. if I am constantly making lots of map zoom changes.

There are at least two advantages of displaying a "Range Scale" value over a

simple "arbitrary scale" value. First, my estimates are probably better, as ~125% of a "range scale" is probably easier to gauge than 14 finger widths times a "tick scale". In addition, the INFORMED/TRAINED user will know a 300% range scale distance refers to a long-axis measurement in an arbitrary window type "display view" and may not be reproducible on a tiny square display. Whereas a 25 unit SA "tick scale" provides no real information of the other user's overall display size, because the SA tick scale has no relation to the overall window size. I just tried resizing an SA display, and a very long and narrow display has the same scale as a square one. A range scale on the other hand would have changed to reflect the screen resizing based on the definition of "one-half of the distance along the map's shortest viewable axis".

4) If the goal is to describe the actual rectangle that the other person is seeing, then add the "missing parameter" that allows one to define the size of that box and to locate it on the map. (Although it still won't help describe the resolution on the map, the amount of map and icon details displayed, etc.)

I personally think that these two methods complement, rather than replace, each other. Voice users will most likely use the center/range construct, whereas fully defined rectangles construct could be used to more precisely transfer view parameters directly between two computers.

5) None of the real-world searches I have been on use computers. There is a great desire by many to change this, but paper will still rule for a very long time to come for a variety of reasons. The center/range metric described by Bob supports paper maps fairly well in two ways.

If a baseline computer view is defined such as the subject's last known point (LKP) with range X, a protractor (or a length of string) can be used to quickly draw an approximation of that screen view onto a paper map. Furthermore, if multiple views are defined/described, then multiple circles (overlapping or not) can be drawn on the paper map and referred to by some predefined area "name" such as the LKP, base area, clue area 1, etc.

Realistically, I doubt that drawing these circles would actually occur. More likely it would be done mentally. One method I like is to spread two fingers apart by the desired distance (Range Scale in this case) and going through the physical motion of drawing a circle as though I was using a protractor while mentally noting the area I was encompassing. Note, this works just as well on a computer screen as it does on a paper map.

The center/range construct's _main_ purpose is to allow someone to express what general coverage area they are seeing. This allows another person to construct some type of gauge for _their_own_use_, either by plotting a

circle on their map, zooming and panning to recreate a similiar screen view, or possbily figuring out mentally what the first person is talking based only on their familiarity with the area.

In the wonferful future to come, a large screen display (videowall :-) map could show the areas that multiple individual user workstations are concentrating on by showing their multiple center/range cirllces on the overall tactical map, and could capture those icons that are out of range of all of the "myoptic" operators. Once glance on the main tactical map could be the alert to focus attention on an area using a different computer's display. The tactical map would, amoung other things, help summarize where your operators are focusing their attention.

6) Mabye I should have spoken up long before, but the lack of any type of scale on applications like javAPRS has been a problem for me. Currently I just make very rough estimates on distances based solely on visual cues from the map itself and inherent knowledge of distances displayed. For example, the displayed distance between the DC and Baltimore beltways, or from the DC Beltway to the I-81 and I-66 intersection. This is fine for rough estimation, but stinks for getting details like how far are we from Manassas VA? With practice, I can now get fair results, but when I show others the types of maps I get the familiar blank-stare as they rarely know what they are looking for/at.

I agree that if a wonderful map site cannot allow you the control (or know) the map scale, or will not allow you to place icons and objects on the output which is to the specs satisfaction, then don't worry about it. If the remaining information does convey what the users think is useful, then it will be used anyhow. But that should not stop the spec from the range scale (or whatever) simply because you cannot implement it given a particular application quirk.

7) Finally, and most importantly, map reading and map usage itself is a skill. I would say that most people are not very good at it. Even experts can get tripped up by various concepts because they may never have used that concept before, or have only used it in a limited way, or don't use it enough to be proficient, or may simply know it may another name.

For example, a "plotting" operator located at a stationary site who is reporting and controlling things around them will probably use different skills and techniques compared to the "navigator" operator who is interested in getting their moving vehicle from one place to another without incident.

The example of how the many different skilled users having never heard of a "range scale" is not suprising to me. They may simply not know what it is, or what good it can do for them, or may have ever needed it, or just don't

recognize it by that name. That does not mean that it is not a useful tool/skill to know. I wonder how many might actually find it helpful once they were 1) taught was it was, and 2) were given the tools that would make it easy to use?

Ask that same group of people how to account for magnetic declination when doing compass work. I have seen people who are experts with map and compass "lose it" during a theoretical-type teaching discussion because what they are used to doing is not always well explained. Furthermore, I know two completely different techniques that both work, but are not compatible with each other. This may be part of the problem with discussing range circles vs. area rectangles.

Finally, I believe there was a sentiment expressed that much of this conversation was a disagreement in underlying technology. I disagree. I think the problem is the fundamental differences of how two people can describe their perceptions of the same thing differently. Two people will probably never agree 100% on what a map display is showing. Even if both were looking at the same size screen, differences in their training, experiences, interpretation, and even eyesight will create different perceptions. The best we can hope for is to minimize those differences, not eliminate them.

Darrell Hale, N3KTP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 27 03:15:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA29505
for <lyris.aprsspec@tapr.org>; Sat, 27 May 2000 03:15:57 -0500 (CDT)
Message-ID: <LYR11589-86772-2000.05.27-03.18.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 27 May 2000 09:14:47 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Center/Range Observations
References: <LYR13460-86758-2000.05.27-00.19.08--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-86758-2000.05.27-00.19.08--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <\$FCs\$0A3P4L5EwjU@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-86758-2000.05.27-00.19.08--roger#peaksys.co.uk@lists.tapr.org>, Darrell Hale <halehome@home.com> writes

[snip]
>Usually this should be "good enough" though since it
>estimates the bulk of what that the other person is seeing, and _gaurantees_
>that anything within the defined circle should be on both displays.
^^^^^^

[snip]

Isn't the whole point that "should" is "will"? At least in terms of the geographical area covered. (Or have I misunderstood it?)

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - http://www.packetradio.org.uk
For WinPack go to - http://www.peaksys.co.uk

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 27 09:17:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA18057
for <lyris.aprsspec@tapr.org>; Sat, 27 May 2000 09:17:11 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 27 May 2000 10:13:12 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Center/Range Observations
In-Reply-To: <LYR11586-86758-2000.05.27-00.19.08--bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-86805-2000.05.27-09.19.27--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005270953190.18221-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Very good summary. I think I agree with everything you have said. And it describes in detail the nuances behind what I am trying to do. I have been hesitant to use so many words, fearing that no one would read it all, but you have summarized it quite well.

On Sat, 27 May 2000, Darrell Hale wrote:

> 1) To me, the idea that the range circle is "the largest circle that can fit
> on the screen" ... Usually this should be "good enough" though since it
> estimates the bulk of what that the other person is seeing, and _gaurantees_
> that anything within the defined circle should be on both displays.
>
> You will never be able to transfer two views EQUALLY between the following
> two [oblong] screens.. By comparing center
> and range scale info, two users can at least approximate what the other is
> seeing and therefore "get on the same page" as it were.

Yep, thats all I am trying to accomplish..
and the following is exactly why I cant work with "tiny-tick" scales.
I think the EYE can much better estimate the length of something small
compared to a long legend (visual division) than estimating somthing big
relative to a small legend (visual multiplication).

> Bob's range scale is always one-half of the distance along the map's
> shortest viewable axis.
> Street Atlas's tick scale is simply the distance between the two vertical
> ticks on the |-----| graphic.
>
> Using each requires a different technique: The Range Scale allows me to
> estimate distances by subdividing an overall number based on visually
> comparing relative segment lengths (ie: a distance that is about 75% that
> from the display center to the range circle, and given a 32 mile range
> scale, is about a 24 mile distance). The Streen Atlas tick scale requires a
> cumulative addition of segments (ie: my index finger width for this
> particular screen is about on tick, the tick scale may be 0.2 miles, so a
> distance of about 13 fingers adds up to about 2.6 miles).
>
> There are at least two advantages of displaying a "Range Scale" value over a
> simple "arbitrary scale" value. First, my estimates are probably better, as
> ~125% of a "range scale" is probably easier to gauge than 14 finger widths
> times a "tick scale".

Yes!

> Whereas a 25 unit SA "tick scale" provides no real information of
> the other user's overall display size, because the SA tick scale has no
> relation to the overall window size. I just tried resizing an SA display,
> and a very long and narrow display has the same scale as a square one. A
> range scale on the other hand would have changed to reflect the screen
> resizing based on the definition of "one-half of the distance along the
> map's shortest viewable axis".

Yes!

>
> 5) None of the real-world searches I have been on use computers...
> The Center/Range metric described by Bob supports paper maps fairly well
> in two ways.
>
> a protractor (or a length of string) can be used
> to quickly draw an approximation of that screen view onto a paper map.
>
> Realistically, I doubt that drawing these circles would actually occur. More
> likely it would be done mentally. One method I like is to spread two
> fingers apart by the desired distance (Range Scale in this case) and going
> through the physical motion of drawing a circle as though I was using a
> protractor while mentally noting the area I was encompassing. Note, this
> works just as well on a computer screen as it does on a paper map.
>
> The center/range construct's _main_ purpose is to allow someone to express
> what general coverage area they are seeing. This allows another person to
> construct some type of gauge for _their_own_use_, either by plotting a
> circle on their map, zooming and panning to recreate a similar screen view,
> or possibly figuring out mentally what the first person is talking based
> only on their familiarity with the area.

Yes, this is exactly what I am trying to standardize.

> In the wonderful future to come, a large screen display (videowall :-) map
> could show the areas that multiple individual user workstations are
> concentrating on by showing their multiple center/range circles on the
> overall tactical map,
> ... This tactical map would, among other things, help summarize where
> your operators are focusing their attention.
>
>
> 6) Maybe I should have spoken up long before, but the lack of any type of
> scale on applications like javAPRS has been a problem for me. Currently I
> just make very rough estimates on distances based solely on visual cues from
> the map itself and inherent knowledge of distances displayed.

This really came home to me when someone sent me a MAP from Sout Africa asking me a detailed question about setting up Digipeaters. It was a beautiful color map comparable to any currently availabe map product. It showed 3 Digipeaters and callsigns. But I was absolutely clueless as to whether the digis were 5 miles apart or 50 miles apart! Being TOTALLY ignorant of the geography of South AFrica, I had NO visual clues. THIS incident CONVINCED me of the PROBLEM and that we MUST have a standard for conveyin MAP SCALE.

Remember 4 out of 10 American adults cannot even find the USA on a world map!!!!!!

> I agree that if a wonderful map site cannot allow you the control (or know)
> the map scale, or will not allow you to place icons and objects on the
> output which is to the specs satisfaction, then don't worry about it. If the
> remaining information does convey what the users think is useful, then it
> will be used anyhow. But that should not stop the spec from the range scale
> (or whatever) simply because you cannot implement it given a particular
> application quirk.

And I thought when you REQUEST the map, that the URL contains the scale you are requesting? Thus you shuld konw the scale of what you get back.

> 7) Finally, and most importantly, map reading and map usage itself is a
> skill. I would say that _most_ people are not very good at it.
>
> Finally, I believe there was a sentiment expressed that much of this
> conversation was a disagreement in underlying technology. I disagree. I
> think the problem is the fundamental differences of how two people can
> describe their perceptions of the same thing differently. Two people will
> probably never agree 100% on what a map display is showing. Even if both
> were looking at the same size screen, differences in their training,
> experiences, interpretation, and even eyesight will create a different
> perceptions. The best we can hope for is to minimize those differences, not
> eliminate them.
>
> Darrell Hale, N3KTP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 27 09:21:27 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA18801
for <lyris.aprsspec@tapr.org>; Sat, 27 May 2000 09:21:27 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 27 May 2000 10:20:26 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Center/Range Observations
In-Reply-To: <LYR11586-86772-2000.05.27-03.18.08--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-86808-2000.05.27-09.23.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10005271018530.18221-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 27 May 2000, Roger Barker wrote:

> >Usually this should be "good enough" though since it
> >estimates the bulk of what that the other person is seeing, and _gaurantees_
> >that anything within the defined circle should be on both displays.
>
> Isn't the whole point that "should" is "will"? At least in terms of the
> geographical area covered. (Or have I misunderstood it?)

Yes. Exactly.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 28 00:16:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA13065
for <lyris.aprsspec@tapr.org>; Sun, 28 May 2000 00:16:02 -0500 (CDT)
Message-Id: <LYR11589-86983-2000.05.28-00.18.21--
lyris.aprsspec#tapr.org@lists.tapr.org>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 27 May 2000 22:15:49 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: Center/Range Observations
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130301b5565b60ba00@[198.106.196.117]>
<LYR11893-86971-2000.05.28-00.00.16--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Wow.

This was very well thought out and well expressed.

The issue of gross differences between display resolution (as with a CRT vs Palm) is an important contribution.

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 28 03:20:09 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA22275
for <lyris.aprsspec@tapr.org>; Sun, 28 May 2000 03:20:08 -0500 (CDT)
Message-Id: <LYR11589-86999-2000.05.28-03.22.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: halehome@mail

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 28 May 2000 04:21:12 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Darrell Hale <halehome@home.com>
Subject: [aprsspec] Re: Center/Range Observations
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <2.2.32.20000528082112.00ae4938@mail>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>>Usually this should be "good enough" though since it
>>estimates the bulk of what that the other person is seeing, and _gaurantees_
>>that anything within the defined circle should be on both displays.
> ^^^^^^
>[snip]
>
>Isn't the whole point that "should" is "will"? At least in terms of the
>geographical area covered. (Or have I misunderstood it?)

No misunderstanding, "will" is the right word.

Given the amount of time it took to write and edit that email, if that is my
only mistake I must be on a roll.

I believe I was thinking to myself at that moment "reported APRS objects
will be within the circle, whereas map details should be about the same -
assuming an approximately equal representation of base map details by both
users on each of their displays." All of that just came out as "should be".

Darrell

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 29 09:45:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA14041
for <lyris.aprsspec@tapr.org>; Mon, 29 May 2000 09:44:59 -0500 (CDT)
Message-ID: <LYR11589-87198-2000.05.29-09.47.23--

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 29 May 2000 10:43:10 -0400
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] OT: All text compression info, please?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <393281FE.216DEB8B@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'd like to learn about how one goes about compressing information in such a way as it (the resulting compressing information) remains a printable ASCII character. I don't know the key words to search on in order to do an internet search engine search. I tried "huffman encoding" but I think that could generate non printable characters.

Is someone in a position to point me in a direction in which I could further my quest, please?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 29 13:42:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA07075
for <lyris.aprsspec@tapr.org>; Mon, 29 May 2000 13:42:18 -0500 (CDT)
Message-Id: <LYR11589-87227-2000.05.29-13.44.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 29 May 2000 13:28:05 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: OT: All text compression info, please?
In-Reply-To: <LYR11608-87198-2000.05.29-09.47.23--dvanhorn#cedar.net@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.0.1.20000529132517.03a85d40@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

At 10:43 AM 5/29/00 -0400, Ev Tupis (W2EV) wrote:
>I'd like to learn about how one goes about compressing information in
>such a way as it (the resulting compressing information) remains a
>printable ASCII character.

I don't think this is possible.
You can compress ASCII by turning it into sixels, but the result is binary.
You can huffman encode, but the result is binary.
Etc..

You can represent a binary byte in hex, as FF for example, but that takes
two bytes to do, and you've lost any compression you're likely to have
gained.

- - -
Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUB0TLS1YF1GDz1l6VWEQJqiACdGMHTDekxypIKXyjp6ItUHLFwbgMAnRYE
4nQBzCt7P0jnkxU1J3flzZ9L
=jnm6
-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 30 04:51:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA15835
for <lyris.aprsspec@tapr.org>; Tue, 30 May 2000 04:51:52 -0500 (CDT)
Message-ID: <LYR11589-87363-2000.05.30-04.54.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 30 May 2000 05:49:19 -0400
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: OT: All text compression info, please?
References: <LYR11610-87227-2000.05.29-13.44.38--
propnet#greeceny.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <39338E9F.D736C799@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> >I'd like to learn about how one goes about compressing information in
> >such a way as it (the resulting compressing information) remains a
> >printable ASCII character.
>
> I don't think this is possible.
> You can compress ASCII by turning it into sixels, but the result is binary.
> You can huffman encode, but the result is binary.
> Etc..
>
> You can represent a binary byte in hex, as FF for example, but that takes
> two bytes to do, and you've lost any compression you're likely to have
> gained.

Hi Dave,
Thanks for the reply. Your insight has given me more of a chance to
think about it more deeply. As it turns out, I may have used the wrong
term ("compression"), when I meant to use the term "encoding". (I'm
learning, though) :o)

I'm going to go on a search engine search on that term to see what comes
up. I seem to remember that UUEncoding allows normally non-transferable
information to become transferable because it is converted to ASCII.
I'm going to pursue that avenue for a while.

Your reply helped to focus me a bit more. Thanks for taking the time!
Warmly,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 30 08:46:06 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA14808
for <lyris.aprsspec@tapr.org>; Tue, 30 May 2000 08:46:04 -0500 (CDT)
Message-Id: <LYR11589-87390-2000.05.30-08.48.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: halehome@mail
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Tue, 30 May 2000 09:47:14 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Darrell Hale <halehome@home.com>
Subject: [aprsspec] Re: OT: All text compression info, please?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <2.2.32.20000530134714.00ad6468@mail>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>Subject: OT: All text compression info, please?
>From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
>Date: Mon, 29 May 2000 10:43:10 -0400
>X-Message-Number: 1

>

>I'd like to learn about how one goes about compressing information in
>such a way as it (the resulting compressing information) remains a
>printable ASCII character.

The only type of compression I can think of that would have a chance to do this is a dictionary type search where one of more ASCII symbols would represent a larger chunk of data. But the conditions to make that happen are usually very prohibitive.

For example, replacing the word "the" with the symbol "*t" or the phrase "in my humble opinion" with the symbol "*IMHO" may get dome compression in a

whole paragraph of text. But noticable gains usually only happens when most of the text is the same repetitive words or phrases, and control characters such as the *, which in this example represents the start of a symbol, can never appear in the regular text.

>I don't know the key words to search on in
>order to do an internet search engine search. I tried "huffman
>encoding" but I think that could generate non printable characters.

Data encoding is such a huge field that I doubt a search engine will be of help much. Some PhD level researchers spend all of their time working on just compression algorithms, so summing up what they do in a few words will be hard. Data encoding by definition is the balancing act done between many variables, and managing the tradeoffs that have to occur while developing any particular algorithm.

Darrell Hale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 30 09:57:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA07132
for <lyris.aprsspec@tapr.org>; Tue, 30 May 2000 09:57:22 -0500 (CDT)
Message-Id: <LYR11589-87401-2000.05.30-09.59.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Tue, 30 May 2000 09:42:32 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: OT: All text compression info, please?
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-87363-2000.05.30-04.54.11--dvanhorn#cedar.net@lists.tapr.org>
References: <LYR11610-87227-2000.05.29-13.44.38--
propnet#greceny.com@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.0.1.20000530094007.0119f5c0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

>Hi Dave,
>Thanks for the reply. Your insight has given me more of a chance to
>think about it more deeply. As it turns out, I may have used the wrong
>term ("compression"), when I meant to use the term "encoding". (I'm
>learning, though) :o)

Well, if it's not compression that you want, then you can convert to hex at
2 bytes/char.

You only use 0-9 and A-F in ascii, and two chars represent any byte. 00 - FF
I'm sure there are other schemes, but probably not so simple to implement.
Look at half a byte, lookup table, output, look at other half, lookup,
output...

- - -

Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----

Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOTPveIFlGDz1l6VWEQJJdQCeIWsLZZhveZ6P/kut+T4D00D/WdgAoLrf
MNQQXIiClvbi0pghAHBt/6pS
=EUHi

-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 30 11:06:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA08099
for <lyris.aprsspec@tapr.org>; Tue, 30 May 2000 11:06:18 -0500 (CDT)
Message-ID: <LYR11589-87414-2000.05.30-11.08.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 30 May 2000 09:05:50 -0700 (PDT)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] Re: OT: All text compression info, please?
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20000530160550.13668.qmail@web901.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Greetings -

Base91 is one rather simple scheme. Check with the APRS Protocol Standard. I think that this is the method used by the packet BBS mail-forwarding system (ie, WORLI, MSYS, et al).

The "UU" system (UUEncode, UUDecode) used on internet is an example of a process for encoding purely binary data into printable ASCII characters for text-oriented transport media. So is BinHex. And, I am sure that there are others.

Jim, KA7EHK

Do You Yahoo!?
Kick off your party with Yahoo! Invites.
<http://invites.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 30 17:32:28 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA23827
for <lyris.aprsspec@tappr.org>; Tue, 30 May 2000 17:32:27 -0500 (CDT)
Message-ID: <LYR11589-87502-2000.05.30-17.34.51--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 30 May 2000 18:30:37 -0400
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] All ASCII encoding

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3934410D.38F283DD@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Folks, thanks for taking the time to help me in my trek. I was able to glean tidbits from every response to get to where I need to be in my understanding. Thanks for putting up with my off topic request.

I am indebted to you all.

Regards,
Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jun 9 19:30:40 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA25493
for <lyris.aprsspec@tappr.org>; Fri, 9 Jun 2000 19:30:39 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 9 Jun 2000 20:30:08 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <00060919562900.21831@lab1>
Message-ID: <LYR11589-89877-2000.06.09-19.33.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10006092019100.15776-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Dale,

I'm glad you asked. You are in the drivers seat now, so since we never could get all the authors to agree to a standard format, I now agree with Brent. We should convert ALL mic-E packets to base 64 transparently.

I propose that we choose a new unused FORMAT character. That signals ALL software everywhere that EVERYTHING that follows in that packet is BASE64. It is then back converted to ORIGINAL form at the other end. Not only does this solve the Mic-E problem, but gives us a good transparent mechanism in the future... AND it can work with all packets.

Problem is, ALL IGATE authors must implement it... I even chose the leading FORMAT identifier character, but darned if I can find the message now ... :-(

de WB4APR, Bob

On Fri, 9 Jun 2000, Dale Heatherington wrote:

> Hi Bob.
> I've been tinkering with my aprsd server program attempting

> to fix the long standing bug in the dup filter. I think I have that fixed but
> I've notice a slight problem with converted Mic_E packets.
> Currently, following your advice, I have a string ">dsy" in the data
> of the converted packet so the source of conversion can be identified.
>
> The same Mic-E packet could be converted by different software and
> and enter the aprs server system as duplicates but not be detected.
> No big deal but maybe we can do better... I now put "APRS" in the reconstructed
ax25 destination
> field. This field is NOT seen by the dup detection code. (path data is
ignored) Would this
> be a better place to put a unique identifier such as "APRDSY" or something
> and leave the data part with the ">Mic-E" string so the dup detector
> works properly? All Mic-E packets converted by aprsd would have
> the same (unique to aprsd) ax25 destination string.
>
>
> N1JUX-3>APK002,K1YGF*,WIDE:@092315z4304.21N/07045.25W>000/000/Mic-E/M2/In
Service>]
> N1JUX-3>APRS,K1YGF*,WIDE:@092315z4304.23N/07045.26W>000/000/E>dsy/M2/In
Service]
>
> These are almost dups. They came in back to back in the data stream. The time
> stamp is the same. The second one was processed by aprsd. The first wasn't.
> I wonder which one is correct?
>
> I notice in the aprsd Mic-E converter code a variable "etype" can be "E" or "T"
producing
> T>dsy or E>dsy. This doesn't seem to be an option in the first example above.
Not being
> familiar with the nuts and bolts of mic-e I don't know what to make of this.
>
>
> --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page <http://www.wa4dsy.net>
> Sent by KMail for Linux
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 9 22:52:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA18635
for <lyris.aprsspec@tapr.org>; Fri, 9 Jun 2000 22:52:13 -0500 (CDT)
Message-Id: <LYR11589-89897-2000.06.09-22.55.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Fri, 9 Jun 2000 22:51:52 -0500
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006100351.XAA11209@tisch.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/9/00 7:30 PM Bob Bruninga (bruninga@nadm.navy.mil) wrote:

>
>I'm glad you asked. You are in the drivers seat now, so since we never
>could get all the authors to agree to a standard format,
>I now agree with Brent. We should convert ALL mic-E packets to base 64
>transparently.
>
>I propose that we choose a new unused FORMAT character. That signals ALL
>software everywhere that EVERYTHING that follows in that packet is BASE64.
>It is then back converted to ORIGINAL form at the other end. Not only
>does this solve the Mic-E problem, but gives us a good transparent
>mechanism in the future... AND it can work with all packets.
>
>Problem is, ALL IGATE authors must implement it... I even chose the
>leading FORMAT identifier character, but darned if I can find the message
>now ... :-(
>

I do not feel we should use one of the last remaining characters for this. There simply is no need, all the data can be converted to other standard formats.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 06:46:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA07667
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 06:46:06 -0500 (CDT)
Message-ID: <LYR11589-89940-2000.06.10-06.48.52--
lyris.aprsspec@tapr.org>
From: "Dale Huguley" <kg5qd@worldnet.att.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 11:43:06 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <006c01bfd2d1\$0c10f920\$d6984d0c@dale-s-home>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

HI All-

Steve Dimse said:

>I do not feel we should use one of the last remaining characters for
>this. There simply is no need, all the data can be converted to other
>standard formats.

>

If it is any help- the "." (period) was reserved for automatic space wx packets- I ended up putting space wx in with the rest of the wx stuff. So I don't need it.

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 09:05:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA07720
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 09:05:43 -0500 (CDT)
Message-ID: <LYR11589-89963-2000.06.10-09.08.36--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-89897-2000.06.09-22.55.07--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 07:05:29 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <03de01bfd2e4\$f03bf1a0\$3e92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA07720

> On 6/9/00 7:30 PM Bob Bruninga (bruninga@nadm.navy.mil) wrote:
>
> >
> >I'm glad you asked. You are in the drivers seat now, so since we never
> >could get all the authors to agree to a standard format,
> >I now agree with Brent. We should convert ALL mic-E packets to base 64
> >transparently.
> >
> >I propose that we choose a new unused FORMAT character. That signals ALL
> >software everywhere that EVERYTHING that follows in that packet is BASE64.

> >It is then back converted to ORIGINAL form at the other end. Not only
> >does this solve the Mic-E problem, but gives us a good transparent
> >mechanism in the future... And it can work with all packets.
> >
> >Problem is, ALL IGATE authors must implement it... I even chose the
> >leading FORMAT identifier character, but darned if I can find the message
> >now ... :-(
> >
> I do not feel we should use one of the last remaining characters for
> this. There simply is no need, all the data can be converted to other
> standard formats.
>
> Steve K4HG

There are a number of characters still available. And there are a number of simple solutions if we are about to run out. The main problem is APRServe and Mic-E at this time. And there are as many ways that Mic-E data is converted as there are programs. Currently, APRSd is munging Mic-E data sending positions all over the world. Also, since there are several different conversions, APRServe/APRSd do not see them as duplicates and passes them on. If the packet was encoded, it might not fix the dupe problem, but in the end each client program will see the original Mic-E packet.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 09:07:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA07980
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 09:07:15 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 10 Jun 2000 10:06:28 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <200006100351.XAA11209@tisch.mail.mindspring.net>
Message-ID: <LYR11589-89964-2000.06.10-09.10.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10006100956460.26306-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Concerning converting Mic-E formats for IGate transport Bob wrote:

> >I now agree with Brent. We should convert ALL mic-E packets to base 64
> >transparently.
> >
> >I propose that we choose a new unused FORMAT character. That signals ALL
> >software everywhere that EVERYTHING that follows in that packet is BASE64.

STEVE SAID:

> I do not feel we should use one of the last remaining characters for
> this. There simply is no need, all the data can be converted to other
> standard formats.

That is exactly the current problem steve!

You wont agree to a "standard" format. So everyone does it diffeerntly,
so there is nothing to consistently check for DUPLICATE or LOOPED packets.
Its a total mess. If the PACKET that I get here, can be ANY of 6
different formats depending TOTALLY on who's Igate software converted it
to HIS perferred "standard" format, then we have a KLUDGE of monstrous
proportions.

EVEN the RF recepiant software at the other end will not recognize the
DUPES coming in from multiple IGates. They will ALL LOOK DIFFERENT, yet
it was the SAME original MIC-E packet at the source. This is CRAZY!

- 1) We need a transparent way to transport Binary packets.
- 2) It should not be restricted to Mic-E packets only
- 3) We should use a common format such as BASE-64
- 4) and EVERY IGATE shuold do it the same way.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jun 10 09:20:33 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10482
for <lyris.aprsspec@tappr.org>; Sat, 10 Jun 2000 09:20:31 -0500 (CDT)
Message-Id: <LYR11589-89966-2000.06.10-09.23.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 09:20:01 -0500
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200006101420.KAA02762@tisch.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 6/10/00 9:05 AM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>There are a number of characters still available. And there are a number
>of simple solutions if we are about to run out. The main problem is
>APRSeve and Mic-E at this time. And there are as many ways that Mic-E
>data is converted as there are programs. Currently, APRSd is munging
>Mic-E data sending positions all over the world. Also, since there are
>several different conversions, APRSeve/APRSd do not see them as
>duplicates and passes them on. If the packet was encoded, it might not
>fix the dupe problem, but in the end each client program will see the
>original Mic-E packet.

>

First of all, you guys forget there are a half-dozen IGates that are
stupid. Bob's is one. It is just a serial port, and can never convert
anything. So any attempt to produce a software solution that "EVERY
IGATE" (emphasis Bob's, and quite ironic at that) must implement is
doomed.

The majority of the dup problem is caused by the combination of TSB
sending both the original Mic-E packet and the converted one, they have
been promising to fix it for some time. If something is broken in the
aprsd conversion, fix it, that's the point of open source!

This is way over-engineering the problem...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 09:26:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA12244
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 09:26:30 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 10 Jun 2000 10:26:18 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <LYR11586-89963-2000.06.10-09.08.36--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-89967-2000.06.10-09.29.24--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10006101023590.26306-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 10 Jun 2000, Brent Hildebrand wrote:

munging Mic-E data sending positions all over the world. Also, since there are several different conversions, APRServe/APRSd do not see them as duplicates and passes them on. If the packet was encoded, it might not fix the dupe problem, but in the end each client program will see the original Mic-E packet.

If all Igates do the same conversion to base64 the same way, then the converted packets would all look alike too and thus the dupe filter would get them too.

When a packet is converted, the original then is destroyed and not injected into APRSd...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 09:36:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA14891
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 09:36:43 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 10 Jun 2000 10:35:55 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <LYR11586-89966-2000.06.10-09.23.23--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-89969-2000.06.10-09.39.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10006101029260.26306-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 10 Jun 2000, Steve Dimse wrote:

> First of all, you guys forget there are a half-dozen IGates that are
> stupid. Bob's is one. It is just a serial port, and can never convert
> anything. So any attempt to produce a software solution that "EVERY
> IGATE" (emphasis Bob's, and quite ironic at that) must implement is
> doomed.

First of all, I thought mine died over a year ago? I never looked at it
since. It is still on line, then this is good news!

Second, if we will agree on a conversion, I would immediately put in a PC
to do the conversion..

> The majority of the dup problem is caused by the combination of TSB
> sending both the original Mic-E packet and the converted one, they have
> been promising to fix it for some time. If something is broken in the
> aprsd conversion, fix it, that's the point of open source!

But then you still have 3 or more other different conversions going on.
And EVERYON's software EVERYWHERE is now then required to recognize these
and any new ones that new authors choose. It is a forever nightmare
until we standardize on one conversion.

> This is way over-engineering the problem...

Huh? Good engineering would agree on one standard, and not keep
bandaiding such a mess...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 10:07:40 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA24886
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 10:07:36 -0500 (CDT)
Message-Id: <LYR11589-89971-2000.06.10-10.10.32--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 11:07:27 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006101507.LAA01951@granger.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/10/00 10:35 AM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>> First of all, you guys forget there are a half-dozen IGates that are
>> stupid. Bob's is one. It is just a serial port, and can never convert
>> anything. So any attempt to produce a software solution that "EVERY
>> IGATE" (emphasis Bob's, and quite ironic at that) must implement is
>> doomed.

>

>First of all, I thought mine died over a year ago? I never looked at it
>since. It is still on line, then this is good news!

>

I dunno, I haven't been looking at what the network is doing...

>Second, if we will agree on a conversion, I would immediately put in a PC
>to do the conversion..

>

There are 4 or 5 others, are you willing to provide them all with PC's,
power, software, and support?

>> The majority of the dup problem is caused by the combination of TSB
>> sending both the original Mic-E packet and the converted one, they have
>> been promising to fix it for some time. If something is broken in the
>> aprsd conversion, fix it, that's the point of open source!

>

>But then you still have 3 or more other different conversions going on.
>And EVERYON's software EVERYWHERE is now then required to recognize these
>and any new ones that new authors choose. It is a forever nightmare
>until we standardize on one convesion.

>

The differences in the way that the different programs convert the
packets are minor, compared to other messes in the protocol this one is
pretty small-time.

>> This is way over-engineering the problem...

>

>Huh? Good engineering would agree on one standard, and not keep
>bandaiding such a mess...

>

Surely I am not the only one who appreciates the irony of Bob making this
statement ;-)

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 11:05:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA08005
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 11:04:59 -0500 (CDT)
Message-ID: <LYR11589-89986-2000.06.10-11.07.55--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 11:04:29 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01BFD2CB.B16BF6A0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve,

Could you offer some constructive suggestions to solve the problem? You indicate that you haven't been looking at what the network has been doing. If you have the time to do so, I think you will soon agree that the Internet feed contains a considerable number of bad, or malformed packets.

This also affects FindU.Com since it is storing these same bad or malformed packets.

If I look at the stations closest to KC9XG-14 with FindU I see calls such as :
WF6FH#14, =4148.03N/,}N9PN0-1,KG9D@

If I look at stations closest to K4HG with FindU I see :W7IUC--11,W7IUC-,Digi

Try http://www.findu.com/cgi-bin/find.cgi?}*
or
http://www.findu.com/cgi-bin/find.cgi?=*
or
http://www.findu.com/cgi-bin/find.cgi?@*

Bill KC9XG

On Saturday, June 10, 2000 10:07 AM, Steve Dimse [SMTP:k4hg@tapr.org] wrote:

> On 6/10/00 10:35 AM Bob Bruninga (bruninga@nadm.navy.mil) wrote:

>

> >> First of all, you guys forget there are a half-dozen IGates that are

```

> >> stupid. Bob's is one. It is just a serial port, and can never convert
> >> anything. So any attempt to produce a software solution that "EVERY
> >> IGATE" (emphasis Bob's, and quite ironic at that) must implement is
> >> doomed.
> >
> >First of all, I thought mine died over a year ago? I never looked at it
> >since. It is still on line, then this is good news!
> >
> I dunno, I haven't been looking at what the network is doing...
>
> >Second, if we will agree on a conversion, I would immediately put in a PC
> >to do the conversion..
> >
> There are 4 or 5 others, are you willing to provide them all with PC's,
> power, software, and support?
>
> >> The majority of the dup problem is caused by the combination of TSB
> >> sending both the original Mic-E packet and the converted one, they have
> >> been promising to fix it for some time. If something is broken in the
> >> aprsd conversion, fix it, that's the point of open source!
> >
> >But then you still have 3 or more other different conversions going on.
> >And EVERYON's software EVERYWHERE is now then required to recognize these
> >and any new ones that new authors choose. It is a forever nightmare
> >until we standardize on one convesion.
> >
> The differences in the way that the different programs convert the
> packets are minor, compared to other messes in the protocol this one is
> pretty small-time.
>
> >> This is way over-engineering the problem...
> >
> >Huh? Good engineering would agree on one standard, and not keep
> >bandaiding such a mess...
> >
> Surely I am not the only one who appreciates the irony of Bob making this
> statement ;-)
>
> Steve K4HG
>
> ---
> You are currently subscribed to aprsspec as: billdiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

```

```

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

```

From bounce-aprsspec-11589@lists.tappr.org Sat Jun 10 12:01:16 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA22022
for <lyris.aprsspec@tappr.org>; Sat, 10 Jun 2000 12:01:14 -0500 (CDT)
Message-Id: <LYR11589-89996-2000.06.10-12.04.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 13:00:59 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200006101700.NAA12099@tisch.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 6/10/00 12:04 PM Bill Diaz (billdiaz@megsinet.net) wrote:

> Could you offer some constructive suggestions to solve the problem? You
> indicate that you haven't been looking at what the network has been doing.
> If
> you have the time to do so, I think you will soon agree that the Internet
> feed
> contains a considerable number of bad, or malformed packets.
>
> This also affects FindU.Com since it is storing these same bad or malformed
> packets.
>
> If I look at the stations closest to KC9XG-14 with FindU I see calls such
> as :
> WF6FH#14, =4148.03N/,}N9PN0-1,KG9D@
> If I look at stations closest to K4HG with FindU I see :W7IUC--11,W7IUC-,Digi
>
> Try http://www.findu.com/cgi-bin/find.cgi?}*
> or
> http://www.findu.com/cgi-bin/find.cgi?=*
> or
> http://www.findu.com/cgi-bin/find.cgi?@*
>

These have nothing to do with the problem at hand. These are caused by
people sending garbage to the internet system. I have heard people

complain that the problem is PASSALL, but I do not think so. Most likely some program mangles the data and returns it to the feed. My plate is full, I do not have the time to track this down. Dale has added a new feature to aprsd that shows the source of all packets when connected to a special port. I am supposed to get a copy of this new version in the near future, and once it is up at aprs.net perhaps someone can use it to see where the bad data is coming from. I think I have made it pretty clear I am not accepting responsibility for the internet feed. Tracking stuff like this was taking all my time, and I don't, and won't, do it any longer.

Better detection and removal of these bad packets is another thing high on the list for findu, now that I am a "Master of the Regular Expression", thanks to the Perl Whirl, should be a piece of cake!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 12:40:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA07485
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 12:40:04 -0500 (CDT)
Message-ID: <LYR11589-90008-2000.06.10-12.43.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 10:40:07 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3155.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <014701bfd302\$f118e880\$f092b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>On 6/10/00 12:04 PM Bill Diaz (billdiaz@megsinet.net) wrote:
>
>> Could you offer some constructive suggestions to solve the problem? You
>>indicate that you haven't been looking at what the network has been doing.
>> If
>>you have the time to do so, I think you will soon agree that the Internet
>>feed
>>contains a considerable number of bad, or malformed packets.
>>
>>This also affects FindU.Com since it is storing these same bad or
malformed
>>packets.
>>
>>If I look at the stations closest to KC9XG-14 with FindU I see calls such
>>as :
>>WF6FH#14, =4148.03N/,}N9PN0-1,KG9D@
>>If I look at stations closest to K4HG with FindU I see
:W7IUC--11,W7IUC-,Digi
>>
>>Try http://www.findu.com/cgi-bin/find.cgi?}*
>>or
>>http://www.findu.com/cgi-bin/find.cgi?=*
>>or
>>http://www.findu.com/cgi-bin/find.cgi?@*
>>
>These have nothing to do with the problem at hand. These are caused by
>people sending garbage to the internet system. I have heard people
>complain that the problem is PASSALL, but I do not think so. Most likely
>some program mangles the data and returns it to the feed. My plate is
>full, I do not have the time to track this down. Dale has added a new
>feature to aprsd that shows the source of all packets when connected to a
>special port. I am supposed to get a copy of this new version in the near
>future, and once it is up at aprs.net perhaps someone can use it to see
>where the bad data is coming from. I think I have made it pretty clear I
>am not accepting responsibility for the internet feed. Tracking stuff
>like this was taking all my time, and I don't, and won't, do it any
>longer.
>
>Better detection and removal of these bad packets is another thing high
>on the list for findu, now that I am a "Master of the Regular
>Expression", thanks to the Perl Whirl, should be a piece of cake!
>
>Steve K4HG

Here is a simple study of data over the last hour of you type of packet, the

@ packet. Notice the mangled data portions of the packet. APRSd is my suspected culprit here with the Mic-E conversion.

```
KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute... ]"6P{
N5WYE-1>APRS,WD5CWZ-2*,WIDE/1:@101609z3042.1210N/00457.09Wk319/000/E>dsy/M0/
Off duty.. ]"4P{
N7IPB-12>APZ032,WA7TAI-10*,WIDE5-2:@100913z/fy00/V**j /Ken's Mobile Shack.
N7IPB-12>APZ032,WA7TAI-10*,WIDE5-1:@100915z/fy00/V**j /Ken's Mobile Shack.
KI0BW-9>APK101,TCPIP*,N0BKB*:@1016ute... ]"6C{
KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.
G7GFC-7>APRS,RELAY,TRACE:@101632z5310.410N/00251.53W>116/000/E>dsy/M0/Off
duty.. ]"40{TMD700E+GPS3 David
G7GFC-7>APRS,GW7HOH*,TRACE:@101634z5310.410N/00251.53W>116/000/E>dsy/M0/Off
duty.. ]TMD700E+GPS3 David
KI0BW-9>APRS,TCPIP*,N0BKB*:@101638z3812.66N/092ute>/]"6<{Just crusing
G7GFC-7>APRS,GW7HOH*,TRACE:@101642z5310.410N/00251.53W>116/000/E>dsy/M0/Off
duty.. ]TMD700E+GPS3 David
KI0BW-9>APK101,TCPIP*,N0BKB*:@1016te... ]"6N{
KI0BW-9>APRS,TCPIP*,N0BKB*:@10164@101649z3812.65N/09241.29W>033/000/E>dsy/M1
/Enroute... ]"6N{
KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute... ]"6G{
G7GFC-7>APRS,GW7HOH*,TRACE:@101659z5310.410N/00251.53W>116/000/E>dsy/M0/Off
duty.. ]"44{TMD700E+GPS3 David
K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101701z4634.610N/12317.79Wv269/000/E>dsy/M2/
In Service ]"5?{
K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101703z4634.610N/12317.79Wv269/000/E>dsy/M2/
In Service ]"5E{
KI0BW-9>APRS,TCPIP*,N0BKB*:@101709z38e>/]"6I{
KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.
KI0BW-9>APK101,TCPIP*,N0BKB*:@101E>dsy/M1/Enroute... ]"6@{Just crusing
KI0BW-9>APK101,TCPIP*,N0BKB*:@1010/E>dsy/M1/Enroute... ]"6@{Just crusing
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 12:59:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12173
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 12:59:32 -0500 (CDT)
Message-Id: <LYR11589-90011-2000.06.10-13.02.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 13:59:05 -0400
x-sender: sdimse@m1.sprynet.com

From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006101759.NAB12035@smtp10.atl.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/10/00 1:40 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>Here is a simple study of data over the last hour of you type of packet, the
>@ packet. Notice the mangled data portions of the packet. APRSd is my
>suspected culprit here with the Mic-E conversion.
>

Hard to place the blame on aprsd, as weather packets, messages, and other things get mangled as well. For example, the W7IUC--11 Bill mentions is a stand-alone weather station beaconing a ! position, not a Mic-E packet.

W7IUC--11>RS,WIDE,WIDE,KD4BBM-6*/V:!2440.16N/08121.63W_Big Pine Key FL -WX

Here's a message packet:

H5!.0-15>WIDE,0N58_N,WB4%PH-5,NOT[I-8,Y@M,&N-4*-11,41X#-8KF4FFN,APR823,W2GF
F-7,KU4LY-7*::WA4MTG :hello there{0

Something else is going on...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 17:43:45 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25778
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 17:43:43 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 10 Jun 2000 18:42:57 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <200006101507.LAA01951@granger.mail.mindspring.net>
Message-ID: <LYR11589-90052-2000.06.10-17.46.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10006101836260.6347-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 10 Jun 2000, Steve Dimse wrote:

> >> The majority of the dup problem is caused by the combination of TSB
> >> sending both the original Mic-E packet and the converted one, they have
> >> been promising to fix it for some time. If something is broken in the
> >> aprsd conversion, fix it, that's the point of open source!
> >
> >But then you still have 3 or more other different conversions going on.
> >[and still no standard for the next problem that comes up...]

> The differences in the way that the different programs convert the
> packets are minor, compared to other messes in the protocol this one is
> pretty small-time.

No matter how minor they are, each and every one of them must be documented, recognized and parsed so that the DUPE ELIMINATOR will work. As it is, none of this is documented nor agreed, since you insisted that APRServe processing not be included in the APRS SPEC. I don't write Igate code, but if you asked me which I would rather do:

- 1) Do dupe checking on any number of conversions, none adhering to any kind of spec that I would have to figure out on my own and modify every time someone changed theirs or a bug was found...

OR

- 2) Agree to one base-64 universal/transparent conversion that would handle all present and future binary packets

I know which one I would choose...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 10 19:09:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA12839
for <lyris.aprsspec@tapr.org>; Sat, 10 Jun 2000 19:09:55 -0500 (CDT)
Message-ID: <LYR11589-90065-2000.06.10-19.12.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <200006101759.NAB12035@smtp10.atl.mindspring.net>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sat, 10 Jun 2000 17:09:20 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <042801bfd339\$4ae85540\$3e92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA12839

I was looking at a single packet type. Not all. Just trying to figure out what is happening. I suspect more than one. But APRSd is mangling some Mic-E packets. I think that is clear.

Brent

----- Original Message -----

From: Steve Dimse <k4hg@tapr.org>
To: Brent Hildebrand <bhildebrand@earthlink.net>; APRS Spec Discussion List
<aprsspec@lists.tapr.org>
Sent: Saturday, June 10, 2000 10:59 AM

Subject: Re: [aprsspec] Re: Mic-E converters and duplicate packet detection

> On 6/10/00 1:40 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >Here is a simple study of data over the last hour of you type of packet, the
> >@ packet. Notice the mangled data portions of the packet. APRSd is my
> >suspected culprit here with the Mic-E conversion.
> >
> Hard to place the blame on aprsd, as weather packets, messages, and other
> things get mangled as well. For example, the W7IUC--11 Bill mentions is a
> stand-alone weather station beaconing a ! position, not a Mic-E packet.
>
> W7IUC--11>RS,WIDE,WIDE,KD4BBM-6*/V:!2440.16N/08121.63W_Big Pine Key FL -WX
>
> Here's a message packet:
>
> H5!.0-15>WIDE,0N58_N,WB4%PH-5,NOT[I-8,Y@M,&N-4*-11,41X#-8KF4FFN,APR823,W2GF
> F-7,KU4LY-7*::WA4MTG :hello there{0
>
> Something else is going on...
>
> Steve K4HG

I was looking at a single packet type. Not all. Just trying to figure out what is happening. I suspect more than one. But APRSd is mangling some Mic-E packets. I think that is clear.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 01:53:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA28434
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 01:53:18 -0500 (CDT)
Message-ID: <LYR11589-90127-2000.06.11-01.56.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 11 Jun 2000 07:15:19 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>

Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
References: <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade#care4free.net@lists.tappr.org>
In-Reply-To: <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade#care4free.net@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <cwCR7GA35yQ5Ewc2@care4free.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade#care4free.net@lists.tappr.org>, Brent
Hildebrand <bhildebrand@earthlink.net> writes

>
>Here is a simple study of data over the last hour of you type of packet, the
>@ packet. Notice the mangled data portions of the packet. APRSd is my
>suspected culprit here with the Mic-E conversion.

>
>KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute...]"6P}

[snip the rest of the packets]

Here is the APRdec output for these packets, with some additional comments:

~~~~~  
~~~~~

```
=====
<<<< APRSdec >>>>  The G3NRW APRS Packet Decoder
=====
Version 1.0.2c (8 June 2000)
by Ian Wade, G3NRW (g3nrw@arrl.net)
```

```
Input file   = brent.log
Output file  = brent.out
DOS Runtime  = 11 Jun 2000  6:26:34.76
```

NOTE: If this report contains anything that you think is incorrect,
please email it to g3nrw@arrl.net for investigation. Thank you.

Record #1

KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute...]"6P}

APRS Data Type= Posit w/ time. With APRS

**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.

Long= **BAD LONG >180deg

**BAD COURSE

Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)

GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion

Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

Record #2

N5WYE-1>APRS,WD5CWZ-2*,WIDE/1:@101609z3042.1210N/00457.09Wk319/000/E>dsy/M0/Off
duty..]"4P}

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 16 hours 09 mins UTC

Lat= **BAD LAT Long= **BAD LONG

Icon= **INVALID ICON Overlay= **BAD OVERLAY CHAR '0' not allowed with this
symbol

Altitude= 187 feet (57 meters)

[***COMMENT: In this and later reports, one or more extraneous digits
appear in the latitude hundredths, just before the "N"].

Record #3

N7IPB-12>APZ032,WA7TAI-10*,WIDE5-2:@100913z/fy00/V**j /Ken's Mobile Shack.

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 09 hours 13 mins UTC

Lat= 48 deg 24.99 min S Long= 122 deg 18.00 min W

Icon= Jeep Overlay= (none)

[***COMMENT: Is there anything wrong with this report and the next one? They
both appear to contain valid 13-character compressed posits].

Record #4

N7IPB-12>APZ032,WA7TAI-10*,WIDE5-1:@100915z/fy00/V**j /Ken's Mobile Shack.

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 09 hours 15 mins UTC

Lat= 48 deg 24.99 min S Long= 122 deg 18.00 min W

Icon= Jeep Overlay= (none)

[***COMMENT: Apparently nothing wrong with this. See above].

Record #5

KI0BW-9>APK101,TCPIP*,N0BKB*:@1016ute...]"6C}

APRS Data Type= Posit w/ time. With APRS

**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.

Lat= 64 deg 00.00 min N Long= 175 deg 06.82 min W

**BAD COURSE

Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)

GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion

Icon= **BAD SYMBOL CODE

**BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

Record #6

KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.

APRS Data Type= Posit w/ time. With APRS

Day= 08 Time= 10 hours 44 mins Local

Lat= 63 deg 22.34 min N Long= 124 deg 38.61 min E

Course= 176 deg Speed= 254 knots (292.3 mph 470.4 kph 130.7 m/s)

**BAD T-BYTE 'd'

Icon= (No Icon) Overlay= **BAD OVERLAY CHAR 'B' not allowed with this symbol

[***COMMENT: The comment text was decoded as a compressed posit. The posit is actually missing. Question: are there any other reports like this, where the actual posit is completely missing? If so, it could be that they contained *compressed* posits which the conversion program didn't know what to do with. Just a hunch].

Record #7

G7GFC-7>APRS,RELAY,TRACE:@101632z5310.410N/00251.53W>116/000/E>dsy/M0/Offduty..

] "40{TMD700E+GPS3 David

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 16 hours 32 mins UTC

Lat= **BAD LAT Long= **BAD LONG

Icon= NWS Site Overlay= N

Altitude= 82 feet (25 meters)

[***COMMENT: Extraneous latitude "0" digit before the "N". I have seen this many times before].

Record #8

G7GFC-7>APRS,GW7HOH*,TRACE:@101634z5310.410N/00251.53W>116/000/E>dsy/M0/
Offduty..]TMD700E+GPS3

David

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 16 hours 34 mins UTC

Lat= **BAD LAT Long= **BAD LONG

Icon= NWS Site Overlay= N

[***COMMENT: Extraneous latitude "0" digit before the "N"].

Record #9

KI0BW-9>APRS,TCPIP*,NOBKB*:@101638z3812.66N/092ute>/]"6<}Just crusing

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 16 hours 38 mins UTC

Lat= 38 deg 12.66 min N Long= **BAD LONG

Icon= **INVALID ICON Overlay= (none)

Altitude= 1859035 feet (566634 meters)

[***COMMENT: Just *what* is he "crusing" in at that altitude, 352 miles up
in the sky].

Record #10

G7GFC-7>APRS,GW7HOH*,TRACE:@101642z5310.410N/00251.53W>116/000/E>dsy/M0/
Offduty..]TMD700E+GPS3

David

APRS Data Type= Posit w/ time. With APRS

Day= 10 Time= 16 hours 42 mins UTC

Lat= **BAD LAT Long= **BAD LONG

Icon= NWS Site Overlay= N

[***COMMENT: Extraneous latitude "0" digit before the "N"].

Record #11

KI0BW-9>APK101,TCPIP*,NOBKB*:@1016te...]"6N}

APRS Data Type= Posit w/ time. With APRS

**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.

Lat= 64 deg 17.40 min N Long= 94 deg 54.76 min W

**BAD COURSE
Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
Icon= **BAD SYMBOL CODE
**BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

Record #12
KI0BW-9>APRS,TCPIP*,N0BKB*:@10164@101649z3812.65N/09241.29W>033/000/E>dsy/M1/
Enroute...]"6N}
APRS Data Type= Posit w/ time. With APRS
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Lat= **BAD LAT Long= **BAD LONG
Icon= **INVALID ICON Overlay= **BAD OVERLAY CHAR '1' not allowed with this
symbol
Altitude= 778 feet (237 meters)

[***COMMENT: Here the timestamp is apparently repeated, sort of].

Record #13
KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute...]"6G}
APRS Data Type= Posit w/ time. With APRS
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Long= **BAD LONG >180deg
**BAD COURSE
Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

Record #14
G7GFC-7>APRS,GW7HOH*,TRACE:@101659z5310.410N/00251.53W>116/000/E>dsy/M0/0ff-duty..
]"44{TMD700E+GPS3 David
APRS Data Type= Posit w/ time. With APRS
Day= 10 Time= 16 hours 59 mins UTC
Lat= **BAD LAT Long= **BAD LONG
Icon= NWS Site Overlay= N
Altitude= 95 feet (29 meters)

[***COMMENT: Extraneous latitude "0" digit before the "N"].

Record #15

K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101701z4634.610N/12317.79Wv269/000/E>dsy/M2/In
Service]"5?}

APRS Data Type= Posit w/ time. With APRS
Day= 10 Time= 17 hours 01 mins UTC
Lat= **BAD LAT Long= **BAD LONG
Icon= NWS Site Overlay= N
Altitude= 430 feet (131 meters)

[***COMMENT: Extraneous latitude "0" digit before the "N"].

Record #16

K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101703z4634.610N/12317.79Wv269/000/E>dsy/M2/In
Service]"5E}

APRS Data Type= Posit w/ time. With APRS
Day= 10 Time= 17 hours 03 mins UTC
Lat= **BAD LAT Long= **BAD LONG
Icon= NWS Site Overlay= N
Altitude= 449 feet (137 meters)

[***COMMENT: Extraneous latitude "0" digit before the "N"].

Record #17

KI0BW-9>APRS,TCPIP*,NOBKB*:@101709z38e>/]"6I}

APRS Data Type= Posit w/ time. With APRS
Day= 10 Time= 17 hours 09 mins UTC
Lat= **BAD LAT Long= **BAD LONG
Icon= **BAD SYMBOL CODE
Overlay= **BAD OVERLAY CHAR 'I' not allowed with this symbol

[***COMMENT: This non-Mic-E report contains a vestige of a Mic-E encoded posit].

Record #18

KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.

APRS Data Type= Posit w/ time. With APRS
Day= 08 Time= 10 hours 44 mins Local
Lat= 63 deg 22.34 min N Long= 124 deg 38.61 min E
Course= 176 deg Speed= 254 knots (292.3 mph 470.4 kph 130.7 m/s)
**BAD T-BYTE 'd'
Icon= (No Icon) Overlay= **BAD OVERLAY CHAR 'B' not allowed with this symbol

[***COMMENT: This is identical to Record #6. Why did it show up twice?].

Record #19

KI0BW-9>APK101,TCPIP*,N0BKB*:@101E>dsy/M1/Enroute...]"6@}Just crusing
APRS Data Type= Posit w/ time. With APRS
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Lat= 61 deg 20.63 min N Long= 34 deg 10.69 min W
Course= 332 deg Speed= 186 knots (214.0 mph 344.5 kph 95.7 m/s)
GPS Fix= Old (last) NMEA Source= GLL Compression Origin= Pico
Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

Record #20

KI0BW-9>APK101,TCPIP*,N0BKB*:@1010/E>dsy/M1/Enroute...]"6@}Just crusing
APRS Data Type= Posit w/ time. With APRS
**BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
Lat= 74 deg 08.03 min S Long= 116 deg 04.16 min W
Course= 312 deg Speed= 641 knots (737.6 mph 1187.1 kph 329.8 m/s)
**BAD T-BYTE 't'
Icon= Restrooms Overlay= **BAD OVERLAY CHAR 'd' not allowed with this symbol

+++++ END OF FILE +++++

~~~~~  
~~~~~  

[***BOTTOM LINE COMMENT: Most of these reports contain "/E>dsy". Is this
a common factor in the problem. Which program generates "/E>dsy"?].

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                                     email: g3nrw@arrl.net |
|                                     |                     |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 02:37:04 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA05550
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 02:36:54 -0500 (CDT)
Message-ID: <LYR11589-90132-2000.06.11-02.39.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 11 Jun 2000 08:36:04 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
References: <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade#care4free.net@lists.tapr.org>
<LYR14779-90127-2000.06.11-01.56.10--Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-90127-2000.06.11-01.56.10--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <iGm+2PAkF0Q5Ew5G@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-90127-2000.06.11-01.56.10--
Ian.Wade#care4free.net@lists.tapr.org>, Ian
Wade <Ian.Wade@care4free.net> writes

>-----
>Record #3
>N7IPB-12>APZ032,WA7TAI-10*,WIDE5-2:@100913z/fy00/V**j /Ken's Mobile Shack.
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 09 hours 13 mins UTC
> Lat= 48 deg 24.99 min S Long= 122 deg 18.00 min W
> Icon= Jeep Overlay= (none)
>
>[***COMMENT: Is there anything wrong with this report and the next one? They
>both appear to contain valid 13-character compressed posits].
>

Yes, on reflection, there probably **is** something wrong here. I don't believe this guy was 48 deg **south**.

BTW, I have already commented to other stations privately that their reported posits seemed way off. A few days ago, when looking at the world map, I saw a VE in the Atlantic off the SW coast of Ireland, and a K7 in Singapore

This is really serious, and throws the whole APRS concept into question. As Bob/Brent and others have commented elsewhere, we really need a single IGate standard asap.

But before that, we need to find out what is creating this garbage. In particular, what generates "E>dsy"? This seems like a good place to start looking.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 08:13:00 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA15301
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 08:12:59 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 11 Jun 2000 09:12:40 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
In-Reply-To: <LYR11586-90132-2000.06.11-02.39.48--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-90148-2000.06.11-08.15.56-->

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10006110901490.15353-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

There are two lessons here...

On Sun, 11 Jun 2000, Ian Wade wrote:

> BTW, I have already commented to other stations privately that their
> reported posits seemed way off.

1) ALL Software should be doing reasonableness filters on moving stations. Even GPS's sometimes send out erroneous data. I found way back in 94 that I had to check for bad data, and ignore. So APRSdos has always ignored instantaneous jumps on moving stations. I think the SPEC should even recommend this if other authors are not doing it already.

> This is really serious, and throws the whole APRS concept into question. As
> Bob/Brent and others have commented elsewhere, we really need a single
> IGate standard asap.

2) The proposal is that any packet that contains binary info will be converted as follows:

- a) The entire data field of the original is base-64 encoded
- b) The encoded packet begins with a "(" and base-64 follows it.
- c) On receipt of a "(" type packet, the process is reversed.

Brent, can you detail the exact steps in base-64 encoding?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 09:32:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA02498
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 09:32:17 -0500 (CDT)
Message-ID: <LYR11589-90153-2000.06.11-09.35.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sun, 11 Jun 2000 09:22:36 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01BFD386.9872C500.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob,

On Sunday, June 11, 2000 8:13 AM, Bob Bruninga [SMTP:bruninga@nadn.navy.mil] wrote:

> There are two lessons here...

>

> On Sun, 11 Jun 2000, Ian Wade wrote:

> > BTW, I have already commented to other stations privately that their

> > reported posits seemed way off.

>

> 1) ALL Software should be doing reasonableness filters on moving stations.

> Even GPS's sometimes send out erroneous data. I found way back in 94 that

> I had to check for bad data, and ignore. So APRSdos has always ignored

> instantaneous jumps on moving stations. I think the SPEC should even

> recommend this if other authors are not doing it already.

>

> > This is really serious, and throws the whole APRS concept into question. As

> > Bob/Brent and others have commented elsewhere, we really need a single

> > IGate standard asap.

This standard should include a method to test the ability of IGATEs and applications, to correctly decode MicE and compressed positions. Currently, a single Mic-E packet appears to be decoded differently by the various IGATEs. A standard collection of packets could be developed, and distributed to permit applications to determine if they meet the standard for decoding these packets.

The insertion of timestamps in decoded packets should be addressed as well. If multiple IGATEs decode the same packet it is possible for each to insert a different timestamp. Each of the decoded packets will appear unique to dupe checking code. Perhaps timestamps should be assigned by the end user application rather than the IGATEs?

Some applications append identifiers to the end of converted packets, some convert text to uppercase, and some insert other information. The IGATE standard should specify the exact permitted content, and format of converted packets to ensure that dupes can be detected and eliminated.

Headers may contain extraneous information that could cause some applications to incorrectly parse the packet. The standard should detail what IGATEs can include, and what must be excluded.

>
> 2) The proposal is that any packet that contains binary info will be
> converted as follows:
>
> a) The entire data field of the original is base-64 encoded
> b) The encoded packet begins with a "(" and base-64 follows it.
> c) On receipt of a "(" type packet, the process is reversed.

The proposal should also include provisions to ensure that dupes can be eliminated.

>
> Brent, can you detail the exact steps in base-64 encoding?
>
> Bob
>
>
>
Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 10:23:13 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA17918
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 10:23:08 -0500 (CDT)
From: "Jonathan Bradshaw" <Jonathan@NrgUp.Net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding

Date: Sun, 11 Jun 2000 16:23:37 +0100
Message-ID: <LYR11589-90163-2000.06.11-10.26.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
In-Reply-To: <LYR14840-90095-2000.06.11-00.00.23--
jonathan#nrgup.net@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NDBBKJGHMCFBFANNEFNCOEINCAAA.Jonathan@NrgUp.Net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from base64 to 8bit by tapr.org id KAA17918

Since everyone is adding their 2p (sorry, I'm now back in the UK and I think I have to add 17.5% VAT to 2p but anyway...)

Its unfortunate that the MIC-E format uses non-printable characters but since it can't be changed either applications should be 8-bit compliant or base-conversion needs to be done so the original data can be returned. I really hope that the future APRS protocol versions start to limit the large number of formats that exist (yes, I know it can't even be talked about until the current version documentation is final).

Are there any TCP servers right now that can't handle 8-bit streams? Could we just look at not converting these packets and letting them go through as intended? APRSD should handle 8-bit just fine and any program that listens to the TNC data stream needs to handle 8-bit anyway to decode those packets.

One day I'll actually get my java igate finished so I can put my money where my mouth is... ;-)

G/N90XE

~ÿçÊ'yÀ'≠Èİó+.n«+âΣùðÜ@ÆÀ)yΔ", \
'äæ/¶ª, •Áµ™k, ä†Näß≤ÊİrΠöz«ßu¶Âjyô®•ðâ^j~jöİ≤óú~]yÛ''ñ+-≥°Z¶øË

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 11:25:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA02218

for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 11:25:39 -0500 (CDT)
Message-Id: <LYR11589-90171-2000.06.11-11.28.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sun, 11 Jun 2000 12:25:24 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006111625.MAA21213@maynard.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/10/00 8:09 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>I was looking at a single packet type. Not all. Just trying to figure
>out what is happening. I suspect more than one. But APRSd is mangling
>some Mic-E packets. I think that is clear.

>

I think it is possible that there is a bug in the Mic-E conversion code
in aprsd, but I really do not think it is doing the packet mangling being
discussed here.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 11:43:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06621
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 11:43:36 -0500 (CDT)
Message-ID: <LYR11589-90182-2000.06.11-11.46.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-90171-2000.06.11-11.28.34--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sun, 11 Jun 2000 09:43:12 -0700

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <058a01bfd3c4\$22d81320\$3e92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id LAA06621

The packets I posted were the Mic-E Conversion packets. That is what I was discussing. Yes, there are other problems. Probably not a single solution. But when I monitor the APRServe/APRSd data stream, some stations just all over the place. and ">dsy" is very prominent in there packets. The obvious mangled NMEA data with dropped or extra characters are easy. Throw them out. The @ packets with incorrect number of digits for Lat or Long are easy, throw them out. But the mis-converted Mic-E data looks like real data. Fix the source. That is what I was saying.

Brent

> On 6/10/00 8:09 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >I was looking at a single packet type. Not all. Just trying to figure
> >out what is happening. I suspect more than one. But APRSd is mangling
> >some Mic-E packets. I think that is clear.
> >
> I think it is possible that there is a bug in the Mic-E conversion code
> in aprsd, but I really do not think it is doing the packet mangling being
> discussed here.
>
> Steve K4HG
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 11:45:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA07295
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 11:45:40 -0500 (CDT)
Message-Id: <LYR11589-90185-2000.06.11-11.48.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
Date: Sun, 11 Jun 2000 12:44:56 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200006111644.MAA19613@maynard.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/11/00 11:23 AM Jonathan Bradshaw (Jonathan@NrgUp.Net) wrote:

>Its unfortunate that the MIC-E format uses non-printable characters but
>since it can't be changed either applications should be 8-bit compliant or
>base-conversion needs to be done so the original data can be returned. I
>really hope that the future APRS protocol versions start to limit the
>large number of formats that exist (yes, I know it can't even be talked
>about until the current version documentation is final).

>

>Are there any TCP servers right now that can't handle 8-bit streams? Could
>we just look at not converting these packets and letting them go through
>as intended? APRSD should handle 8-bit just fine and any program that
>listens to the TNC data stream needs to handle 8-bit anyway to decode
>those packets.

>

First, the problem is not "8 bit", but rather the non-printing
characters. No line oriented protocol can handle all NPC's transparently,
CR or LF always has special meaning. Other NPCs also carry meaning, and
so may be filtered out.

When I was working on the problem in the past, I wrote a short program to

send these npc's as part of an APRS packet to the server, and they did not get filtered out. However, somewhere along the path they do get filtered. Unless someone wants to spend some time digging into the details to find out exactly where the problem is, letting them pass is not a solution.

Steve K4HG
Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 11:48:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA08267
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 11:48:16 -0500 (CDT)
Message-Id: <LYR11589-90190-2000.06.11-11.51.11--
lyris.aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sun, 11 Jun 2000 12:48:04 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006111648.MAC14858@granger.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/11/00 12:43 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>The packets I posted were the Mic-E Conversion packets. That is what I
>was discussing. Yes, there are other problems. Probably not a single
>solution. But when I monitor the APRSServe/APRSD data stream, some
>stations just all over the place. and ">dsy" is very prominent in there
>packets. The obvious mangled NMEA data with dropped or extra characters
>are easy. Throw them out. The @ packets with incorrect number of digits
>for Lat or Long are easy, throw them out. But the mis-converted Mic-E
>data looks like real data. Fix the source. That is what I was saying.
>

So since aprsd is open source, whgy doesn't someone fix it?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 12:00:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11304
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 12:00:18 -0500 (CDT)
Message-Id: <LYR11589-90193-2000.06.11-12.03.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Sun, 11 Jun 2000 13:00:00 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006111659.MAB05902@maynard.mail.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/10/00 6:42 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>No matter how minor they are, each and every one of them must be
>documented, recognized and parsed so that the DUPE ELIMINATOR will work.
>As it is, none of this is documented nor agreed, since you insisted that
>APRServe processing not be included in the APRS SPEC.

What I said was it should not be included in that spec, but rather in a
separate document. Unfortunately the first one took so much out of
everyone that there seems to be little interest in starting another.

>I dont write Igate
>code, but if you asked me which I would rather do:
>
> 1) Do dupe checking on any number of conversions, none adhering to
> any kind of spec that I would have to figure out on my own and
> modify every time someone changed theirs or a bug was found...
>

>OR

>

> 2) Agree to one base-64 universal/transparent conversion that would
> handle all present and future binary packets

>

>I know which one I would choose...

>

There are a few easily fixed problems. First, TSB need to stop sending both the converted packet and the original. This will greatly reduce, if not eliminate the number of Mic-E packets aprsd sees and converts. In turn, this means a whole lot less possibilities for seeing dups.

Second, someone can look at the Mic-E conversion code in aprsd, find out if there really is a bug, and fix it.

Third, if there still are enough dups to worry about (and should only happen when an area is served by multiple IGates of different types) then standardization of the converted packet could be done.

This is not something that I think calls for a new packet type.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 12:04:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12222
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 12:04:28 -0500 (CDT)
Message-ID: <LYR11589-90195-2000.06.11-12.07.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Private Discussion" <aprsdev@lists.tapr.org>
References: <LYR11585-90185-2000.06.11-11.48.26--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
Date: Sun, 11 Jun 2000 10:04:06 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <05c101bfd3c7\$1026e3c0\$3e92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id MAA12222

> On 6/11/00 11:23 AM Jonathan Bradshaw (Jonathan@NrgUp.Net) wrote:
>
> >Its unfortunate that the MIC-E format uses non-printable characters but
> >since it can't be changed either applications should be 8-bit compliant or
> >base-conversion needs to be done so the original data can be returned. I
> >really hope that the future APRS protocol versions start to limit the
> >large number of formats that exist (yes, I know it can't even be talked
> >about until the current version documentation is final).
> >
> >Are there any TCP servers right now that can't handle 8-bit streams? Could
> >we just look at not converting these packets and letting them go through
> >as intended? APRSD should handle 8-bit just fine and any program that
> >listens to the TNC data stream needs to handle 8-bit anyway to decode
> >those packets.
> >
> First, the problem is not "8 bit", but rather the non-printing
> characters. No line oriented protocol can handle all NPC's transparently,
> CR or LF always has special meaning. Other NPCs also carry meaning, and
> so may be filtered out.
>
> When I was working on the problem in the past, I wrote a short program to
> send these npc's as part of an APRS packet to the server, and they did
> not get filtered out. However, somewhere along the path they do get
> filtered. Unless someone wants to spend some time digging into the
> details to find out exactly where the problem is, letting them pass is
> not a solution.
>
> Steve K4HG
> Steve K4HG

Actually, it would be quite simple to create a line oriented protocol that handled all NPCs. Just like AX.25, Garmin's GPS protocol, and many other protocols. It requires an "escape" character and a conversion character. Then any data can be passed. Example: If the new line character, <NL> is the packet end delimiter, and the "escape" character is @, and the conversion character for <NL> was 1, then anytime a <NL> character was encountered, it would be converted to @1, except

at the end of a packet where the <NL> signalled the end of the packet. The escape character is self is encoded, might just be is self doubled. All NPCs would then be encoded in this way. The overhead is actually quite minimal, and all characters that go in, come out as they when it. Completely transparent.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 12:07:51 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA13474
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 12:07:47 -0500 (CDT)
Message-Id: <LYR11589-90200-2000.06.11-12.10.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
Date: Sun, 11 Jun 2000 13:07:26 -0400
x-sender: sdimse@m1.sprynet.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Private Discussion" <aprsdev@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200006111707.NAA10183@smtp10.atl.mindspring.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 6/11/00 1:04 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>Actually, it would be quite simple to create a line oriented protocol that
>handled all NPCs. Just like AX.25, Garmin's GPS protocol, and many other
>protocols. It requires an "escape" character and a conversion character.
>Then any data can be passed. Example: If the new line character, <NL> is
>the packet end delimiter, and the "escape" character is @, and the
>conversion character for <NL> was 1, then anytime a <NL> character was
>encountered, it would be converted to @1, except at the end of a packet
>where the <NL> signalled the end of the packet. The escape character is

>self is encoded, might just be is self doubled. All NPCs would then be
>encoded in this way. The overhead is actually quite minimal, and all
>characters that go in, come out as they when it. Completely transparent.
>

By transparent I meant one that didn't require escape codes. TNC's use
ctrl-v as the escape code by default.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 15:02:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA28980
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 15:02:27 -0500 (CDT)
Message-ID: <LYR11589-90225-2000.06.11-14.59.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Private Discussion" <aprsdev@lists.tapr.org>
References: <200006111707.NAA10183@smtp10.atl.mindspring.net>
Subject: [aprsspec] Re: MIC-E and binary encoding
Date: Sun, 11 Jun 2000 12:55:41 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <061c01bfd3df\$06b116e0\$3e92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA28980

> On 6/11/00 1:04 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >Actually, it would be quite simple to create a line oriented protocol that
> >handled all NPCs. Just like AX.25, Garmin's GPS protocol, and many other
> >protocols. It requires an "escape" character and a conversion character.

> >Then any data can be passed. Example: If the new line character, <NL> is
> >the packet end delimiter, and the "escape" character is @, and the
> >conversion character for <NL> was 1, then anytime a <NL> character was
> >encountered, it would be converted to @1, except at the end of a packet
> >where the <NL> signalled the end of the packet. The escape character is
> >self is encoded, might just be is self doubled. All NPCs would then be
> >encoded in this way. The overhead is actually quite minimal, and all
> >characters that go in, come out as they when it. Completely transparent.
> >
> By transparent I meant one that didn't require escape codes. TNC's use
> ctrl-v as the escape code by default.
>
> Steve K4HG

By transparent I mean what you put in one side, you get exactly the same thing out
the other. Ctrl-V does not apply to KISS mode. KISS mode does not need it.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 11 16:54:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26108
for <lyris.aprsspec@tapr.org>; Sun, 11 Jun 2000 16:54:36 -0500 (CDT)
Date: Sun, 11 Jun 2000 17:52:46 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Subject: [aprsspec] aprsd dev page
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Reply-to: quesnelb@ve2.ele.etsmtl.ca
Message-id: <LYR11589-90248-2000.06.11-16.57.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: MULTIPART/ALTERNATIVE;
BOUNDARY="Boundary_(ID_quF2Q0pt6BPVBWV0dLsMwQ)"
X-Accept-Language: en
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <39440A2E.157E3C1B@ve2.ele.etsmtl.ca>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <NBBBJJKGMKOEPLJIIIFEGOENBJHAC.rich.carter@windriver.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I've been looking through the spec and other associated documentation that I have, and have found no way to issue a mayday or panpan call using APRS. It seems that the receivers will filter out messages unless they are addressed for the specific recipient. Have I missed something here?

Rich - KE1EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jun 12 11:43:05 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA09511
for <lyris.aprsspec@tappr.org>; Mon, 12 Jun 2000 11:43:04 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 12 Jun 2000 12:42:13 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: MAYDAY supported?
In-Reply-To: <LYR11586-90475-2000.06.12-11.02.46--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-90491-2000.06.12-11.46.02--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10006121240250.21153-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 12 Jun 2000, Richard Carter wrote:

> I've been looking through the spec and other associated documentation that I

> have, and have found no way to issue a mayday or panpan call using APRS. It
> seems that the receivers will filter out messages unless they are addressed
> for the specific recipient. Have I missed something here?

That's what BULLETINS are for. They go to everyone.

Send TO: BLN1

MSG: HELP!, Sinking in Pax RIVER...

And everyone will be alerted. If it is a kenwood, or a Mic-E, then jsut
welect the EMERGENCY button...

de WB4APR< Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 12 12:02:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA17940
for <lyris.aprsspec@tapr.org>; Mon, 12 Jun 2000 12:02:56 -0500 (CDT)
Message-ID: <LYR11589-90493-2000.06.12-12.05.49--
lyris.aprsspec@tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-90491-2000.06.12-11.46.02--
bhildebrand@earthlink.net>
Subject: [aprsspec] Re: MAYDAY supported?
Date: Mon, 12 Jun 2000 10:02:51 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <009f01bfd490\$0eca95c0\$9594b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

```
> On Mon, 12 Jun 2000, Richard Carter wrote:
>
> > I've been looking through the spec and other associated documentation
that I
> > have, and have found no way to issue a mayday or panpan call using APRS.
It
> > seems that the receivers will filter out messages unless they are
addressed
> > for the specific recipient. Have I missed something here?
>
> That's what BULLETINS are for. They go to everyone.
>
> Send TO: BLN1
>     MSG: HELP!, Sinking in Pax River...
>
> And everyone will be alerted. If it is a kenwood, or a Mic-E, then jsut
> welect the EMERGENCY button...
>
> de WB4APR< Bob
```

But bulletins do not have the same force as the Mic-E alarm function. I would propose a simple addition where if you sent a message TO EMERGENCY, it would trigger the same alarms as a Mic-E alarm.

Brent

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

```
From bounce-aprsspec-11589@lists.tapr.org Mon Jun 12 15:00:14 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA01297
    for <lyris.aprsspec@tapr.org>; Mon, 12 Jun 2000 15:00:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 12 Jun 2000 15:59:39 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MAYDAY supported?
In-Reply-To: <009f01bfd490$0eca95c0$9594b3d1@laptop233>
Message-ID: <LYR11589-90535-2000.06.12-15.03.09--
lyris.aprsspec#tapr.org@lists.tapr.org>
```

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10006121553130.13212-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 12 Jun 2000, Brent Hildebrand wrote:

> But bulletins do not have the same force as the Mic-E alarm function. I
> would propose a simple addition where if you sent a message TO EMERGENCY, it
> would trigger the same alarms as a Mic-E alarm.

I agree. Unless someone objects, I see no reason why we cannot do so.
Of course, people will want to TEST this capability.... Should we also
declare, that an EMERGENCY message with the first word of "TEST" should be
ignored by all operators even though the alarms will still occur.

Clearly these will be nuisances, but it is nice to have a plan...?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 12 15:19:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA09881
for <lyris.aprsspec@tapr.org>; Mon, 12 Jun 2000 15:19:52 -0500 (CDT)
Message-Id: <LYR11589-90545-2000.06.12-15.22.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 12 Jun 2000 15:18:24 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: MAYDAY supported?
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-90535-2000.06.12-15.03.09--dvanhorn#cedar.net@lis
ts.tapr.org>
References: <009f01bfd490\$0eca95c0\$9594b3d1@laptop233>

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.0.1.20000612151645.03f45100@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----
Hash: SHA1

>I agree. Unless someone objects, I see no reason why we cannot do so.
>Of course, people will want to TEST this capability.... Should we also
>declare, that an EMERGENCY message with the first word of "TEST" should be
>ignored by all operators even though the alarms will still occur.
>
>Clearly these will be nuisances, but it is nice to have a plan...?

There really should be a test functionality.
pls don't implement like my SAME radio.. the screeching alarm weekly is a
great way to get the speaker disconnected. Tests should be quiet, and only
generate a "test ok" message.

- - -
Are you an ISP? Tired of spam?
www.spamwhack.com A pre-emptive strike against spam!

Where's Dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

-----BEGIN PGP SIGNATURE-----
Version: PGPfreeware 6.5.2 for non-commercial use <<http://www.pgp.com>>

iQA/AwUBOUVhsIFlGDz1l6VWEQJhsACfbWlKZlSy10YiheHAJBHqzHVo4+UAoND1
rl8T8yA/n8hpeAtbK5GdMUbM
=NA9G
-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 12 18:33:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA07013
for <lyris.aprsspec@tapr.org>; Mon, 12 Jun 2000 18:33:27 -0500 (CDT)
Message-ID: <LYR11589-90592-2000.06.12-18.36.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: =?iso-8859-1?Q?Gun_Steele_W=D8GUN?= <w0gun@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade@care4free.net@lists.tapr.org> <LYR15515-90127-2000.06.11-01.56.10--
w0gun@arrl.net@lists.tapr.org>
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
Date: Mon, 12 Jun 2000 15:29:42 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-MIME-Autoconverted: from 8bit to quoted-printable by mail.gcnet.com id TAA25289
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000201bfd4c6\$8da3d240\$5b6686d1@micronmsdn>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA07013

Ian,

Trying to determine why a D700 won't 'List' any stations in memory.
Downloaded & skimmed thru the spec PDF, but on what page is a listing of
acceptable characters to follow the semicolon? My Kenwood only displays the
call sign with ?? after it and I have never had the freq. display blank to
the other info screen. So little APRS data here in SW Kansas, that I don't
know if the radio is working properly. The only data I have seen (Pmon) had
an ' after the semicolon.

Gun Steele WÿGUN

SYNERTOOL

----- Original Message -----

From: "Ian Wade" <Ian.Wade@care4free.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Sent: Sunday, June 11, 2000 1:15 AM

Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection

> In article

```

<LYR14779-90008-2000.06.10-12.43.00--Ian.Wade#care4free.net@lists.tapir.org>,
Brent
> Hildebrand <bhildebrand@earthlink.net> writes
>
> >
> >Here is a simple study of data over the last hour of you type of packet,
the
> >@ packet. Notice the mangled data portions of the packet. APRSd is my
> >suspected culprit here with the Mic-E conversion.
> >
> >KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute... ]"6P}
>
> [snip the rest of the packets]
>
>
> Here is the APRdec output for these packets, with some additional
comments:
>
>
~~~~~
~~~~~
>
>
> =====
> <<<< APRSdec >>>> The G3NRW APRS Packet Decoder
> =====
> Version 1.0.2c (8 June 2000)
> by Ian Wade, G3NRW (g3nrw@arrl.net)
>
> Input file = brent.log
> Output file = brent.out
> DOS Runtime = 11 Jun 2000 6:26:34.76
>
> NOTE: If this report contains anything that you think is incorrect,
> please email it to g3nrw@arrl.net for investigation. Thank you.
>
>
> -----
> Record #1
> KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute... ]"6P}
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Long= **BAD LONG >180deg
> **BAD COURSE
> Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
> GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
> Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER

```

```

>
> -----
> Record #2
>
N5WYE-1>APRS,WD5CWZ-2*,WIDE/1:@101609z3042.1210N/00457.09Wk319/000/E>dsy/M0/
Off duty.. ]"4P}
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 09 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= **INVALID ICON Overlay= **BAD OVERLAY CHAR '0' not allowed with
this symbol
> Altitude= 187 feet (57 meters)
>
>
> [***COMMENT: In this and later reports, one or more extraneous digits
> appear in the latitude hundredths, just before the "N"].
>
>
> -----
> Record #3
> N7IPB-12>APZ032,WA7TAI-10*,WIDE5-2:@100913z/fy00/V**j /Ken's Mobile
Shack.
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 09 hours 13 mins UTC
> Lat= 48 deg 24.99 min S Long= 122 deg 18.00 min W
> Icon= Jeep Overlay= (none)
>
> [***COMMENT: Is there anything wrong with this report and the next one?
They
> both appear to contain valid 13-character compressed posits].
>
>
> -----
> Record #4
> N7IPB-12>APZ032,WA7TAI-10*,WIDE5-1:@100915z/fy00/V**j /Ken's Mobile
Shack.
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 09 hours 15 mins UTC
> Lat= 48 deg 24.99 min S Long= 122 deg 18.00 min W
> Icon= Jeep Overlay= (none)
>
> [***COMMENT: Apparently nothing wrong with this. See above].
>
>
> -----
> Record #5
> KI0BW-9>APK101,TCPIP*,N0BKB*:@1016ute... ]"6C}
> APRS Data Type= Posit w/ time. With APRS

```

```

> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Lat= 64 deg 00.00 min N Long= 175 deg 06.82 min W
> **BAD COURSE
> Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
> GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
> Icon= **BAD SYMBOL CODE
> **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
>
> -----
> Record #6
> KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.
> APRS Data Type= Posit w/ time. With APRS
> Day= 08 Time= 10 hours 44 mins Local
> Lat= 63 deg 22.34 min N Long= 124 deg 38.61 min E
> Course= 176 deg Speed= 254 knots (292.3 mph 470.4 kph 130.7 m/s)
> **BAD T-BYTE 'd'
> Icon= (No Icon) Overlay= **BAD OVERLAY CHAR 'B' not allowed with this
symbol
>
>
> [***COMMENT: The comment text was decoded as a compressed posit. The posit
> is actually missing. Question: are there any other reports like this,
where
> the actual posit is completely missing? If so, it could be that they
contained
> *compressed* posits which the conversion program didn't know what to do
with.
> Just a hunch].
>
>
> -----
> Record #7
>
G7GFC-7>APRS,RELAY,TRACE:@101632z5310.410N/00251.53W>116/000/E>dsy/M0/0ffdut
y..
> ]"40{TMD700E+GPS3 David
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 32 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
> Altitude= 82 feet (25 meters)
>
> [***COMMENT: Extraneous latitude "0" digit before the "N". I have seen
this
> many times before].
>
>
>

```

```

> -----
> Record #8
>
G7GFC-7>APRS,GW7HOH*,TRACE:@101634z5310.410N/00251.53W>116/000/E>dsy/M0/0ffd
uty.. ]TMD700E+GPS3
> David
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 34 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
>
> [***COMMENT: Extraneous latitude "0" digit before the "N"].
>
>
> -----
> Record #9
> KI0BW-9>APRS,TCPIP*,NOBKB*:@101638z3812.66N/092ute>/] "6<} Just crusing
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 38 mins UTC
> Lat= 38 deg 12.66 min N Long= **BAD LONG
> Icon= **INVALID ICON Overlay= (none)
> Altitude= 1859035 feet (566634 meters)
>
>
> [***COMMENT: Just *what* is he "crusing" in at that altitude, 352 miles up
> in the sky .....].
>
>
> -----
> Record #10
>
G7GFC-7>APRS,GW7HOH*,TRACE:@101642z5310.410N/00251.53W>116/000/E>dsy/M0/0ffd
uty.. ]TMD700E+GPS3
> David
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 42 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
>
> [***COMMENT: Extraneous latitude "0" digit before the "N"].
>
>
> -----
> Record #11
> KI0BW-9>APK101,TCPIP*,NOBKB*:@1016te... ] "6N}
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Lat= 64 deg 17.40 min N Long= 94 deg 54.76 min W

```



```

> **BAD COURSE
> Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
> GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
> Icon= **BAD SYMBOL CODE
> **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
>
> -----
> Record #12
>
KI0BW-9>APRS,TCPIP*,N0BKB*:@10164@101649z3812.65N/09241.29W>033/000/E>dsy/M1
/Enroute... ]"6N}
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Lat= **BAD LAT Long= **BAD LONG
> Icon= **INVALID ICON Overlay= **BAD OVERLAY CHAR '1' not allowed with
this symbol
> Altitude= 778 feet (237 meters)
>
> [***COMMENT: Here the timestamp is apparently repeated, sort of].
>
>
> -----
> Record #13
> KI0BW-9>APK101,TCPIP*,N0BKB*:@101nroute... ]"6G}
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Long= **BAD LONG >180deg
> **BAD COURSE
> Speed= 0 knots (0.0 mph 0.0 kph 0.0 m/s)
> GPS Fix= Old (last) NMEA Source= RMC Compression Origin= Digipeater
conversion
> Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
>
> -----
> Record #14
>
G7GFC-7>APRS,GW7HOH*,TRACE:@101659z5310.410N/00251.53W>116/000/E>dsy/M0/0ffd
uty..
> ]"44}TMD700E+GPS3 David
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 16 hours 59 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
> Altitude= 95 feet (29 meters)
>
> [***COMMENT: Extraneous latitude "0" digit before the "N"].
>

```

```

>
> -----
> Record #15
>
K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101701z4634.610N/12317.79Wv269/000/E>dsy/M2/
In Service ]"5?}
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 17 hours 01 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
> Altitude= 430 feet (131 meters)
>
> [***COMMENT: Extraneous latitude "0" digit before the "N"].
>
>
> -----
> Record #16
>
K7GPS-9>APRS,K7GPS-10*,WIDE4-3:@101703z4634.610N/12317.79Wv269/000/E>dsy/M2/
In Service ]"5E}
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 17 hours 03 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= NWS Site Overlay= N
> Altitude= 449 feet (137 meters)
>
> [***COMMENT: Extraneous latitude "0" digit before the "N"].
>
>
> -----
> Record #17
> KI0BW-9>APRS,TCPIP*,NOBKB*:@101709z38e>/] "6I}
> APRS Data Type= Posit w/ time. With APRS
> Day= 10 Time= 17 hours 09 mins UTC
> Lat= **BAD LAT Long= **BAD LONG
> Icon= **BAD SYMBOL CODE
> Overlay= **BAD OVERLAY CHAR 'I' not allowed with this symbol
>
> [**COMMENT: This non-Mic-E report contains a vestige of a Mic-E encoded
posit].
>
>
> -----
> Record #18
> KE5PL>APRS,KE5PL-1*,WIDE,K5ELP-2:@081044/B.John in Midland, TX.
> APRS Data Type= Posit w/ time. With APRS
> Day= 08 Time= 10 hours 44 mins Local
> Lat= 63 deg 22.34 min N Long= 124 deg 38.61 min E

```

```

> Course= 176 deg   Speed= 254 knots (292.3 mph  470.4 kph  130.7 m/s)
> **BAD T-BYTE 'd'
> Icon= (No Icon)   Overlay= **BAD OVERLAY CHAR 'B' not allowed with this
symbol
>
>
> [***COMMENT: This is identical to Record #6. Why did it show up twice?].
>
>
> -----
> Record #19
> KI0BW-9>APK101,TCPIP*,NOBKB*:@101E>dsy/M1/Enroute... ]"6@}Just crusing
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Lat= 61 deg 20.63 min N   Long= 34 deg 10.69 min W
> Course= 332 deg   Speed= 186 knots (214.0 mph  344.5 kph  95.7 m/s)
> GPS Fix= Old (last)   NMEA Source= GLL   Compression Origin= Pico
> Icon= **BAD SYMBOL TABLE IDENTIFIER/OVERLAY CHARACTER
>
> -----
> Record #20
> KI0BW-9>APK101,TCPIP*,NOBKB*:@1010/E>dsy/M1/Enroute... ]"6@}Just crusing
> APRS Data Type= Posit w/ time. With APRS
> **BAD/MISSING TIMESTAMP. Rest of data may not decode correctly.
> Lat= 74 deg 08.03 min S   Long= 116 deg 04.16 min W
> Course= 312 deg   Speed= 641 knots (737.6 mph  1187.1 kph  329.8 m/s)
> **BAD T-BYTE 't'
> Icon= Restrooms   Overlay= **BAD OVERLAY CHAR 'd' not allowed with this
symbol
>
> ++++++ END OF FILE ++++++
>
>
>
~~~~~
~~~~~
>
>
>
> [***BOTTOM LINE COMMENT: Most of these reports contain "/E>dsy". Is this
> a common factor in the problem. Which program generates "/E>dsy"?].
>
>
>
>
> 73
> Ian, G3NRW
> Technical Editor, APRS Protocol Specification

```

```
>
>
> ***** Third draft now available *****
> --
> +-----+
> | APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
> | email: g3nrw@arrl.net |
> | |
> | APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
> | APRS DECODER: http://www.netro.co.uk/aprs.htm |
> +-----+
>
>
> ---
> You are currently subscribed to aprsspec as: w0gun@arrl.net
> To unsubscribe send a blank email to leave-aprsspec-15515A@lists.tapr.org
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
```

```
From bounce-aprsspec-11589@lists.tapr.org Tue Jun 13 04:58:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA11767
    for <lyris.aprsspec@tapr.org>; Tue, 13 Jun 2000 04:58:52 -0500 (CDT)
Message-ID: <LYR11589-90688-2000.06.13-04.57.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 13 Jun 2000 07:00:18 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Mic-E converters and duplicate packet detection
References: <LYR14779-90008-2000.06.10-12.43.00--
Ian.Wade#care4free.net@lists.tapr.org>
    <LYR15515-90127-2000.06.11-01.56.10--w0gun#arrl.net@lists.tapr.org>
    <000201bfd4c6$8da3d240$5b6686d1@micronmsdn>
In-Reply-To: <000201bfd4c6$8da3d240$5b6686d1@micronmsdn>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <T0yy0CAy3cR5Ew3n@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
```

In article <000201bfd4c6\$8da3d240\$5b6686d1@micronmsdn>, Gun Steele WÿGUN
<w0gun@arrl.net> writes
>Ian,
> Trying to determine why a D700 won't 'List' any stations in memory.
>Downloaded & skimmed thru the spec PDF, but on what page is a listing of
>acceptable characters to follow the semicolon? My Kenwood only displays the
>call sign with ?? after it and I have never had the freq. display blank to
>the other info screen. So little APRS data here in SW Kansas, that I don't
>know if the radio is working properly. The only data I have seen (Pmon) had
>an ' after the semicolon.
>

Hi Gun. I'm not sure what you mean by "to follow the semicolon". I
wonder if you mean the colon : . If so, the full list of acceptable
characters is on page 17 of draft version 1.0.1m (30 April 2000) --
"APRS Data Type Identifiers".

The apostrophe ' signifies "Old Mic-E Data", for everything *except* the
D700 -- Kenwood got it wrong, and uses the ' to signify "Current Mic-E
Data" instead.

Other Data Type Identifiers you will most often see from a Kenwood are:

> Status message
: Message
; Object

Hope this helps.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

***** Third draft now available *****

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@arrl.net      |
|                                                         |
| APRS PROTOCOL SPEC:  http://www.tapr.org/tapr/html/Faprswg.html |
| APRS DECODER:        http://www.netro.co.uk/aprs.htm      |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jun 14 21:09:18 2000

Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id VAA07146
for <lyris.aprrspec@taprr.org>; Wed, 14 Jun 2000 21:09:16 -0500 (CDT)
Message-ID: <LYR11589-90986-2000.06.14-21.12.19--
lyris.aprrspec#taprr.org@lists.taprr.org>
Date: Wed, 14 Jun 2000 22:09:39 -0400
From: kf4chg <kf4chg@atlantic.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprrspec@lists.taprr.org>
Subject: [aprrspec] leave-aprrspec-11602B@lists.taprr.org
Content-Type: multipart/mixed;
boundary="-----133EED53C3D3A687C7559A83"
List-Unsubscribe: <mailto:leave-aprrspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprrspec@lists.taprr.org>
List-Owner: <mailto:owner-aprrspec@lists.taprr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.taprr.org>
X-Message-Id: <39483AE3.9EB5BF86@atlantic.net>
Sender: bounce-aprrspec-11589@lists.taprr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----133EED53C3D3A687C7559A83
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

leave-aprrspec-11589P@lists.taprr.org

-----133EED53C3D3A687C7559A83
Content-Type: text/x-vcard; charset=us-ascii;
name="kf4chg.vcf"
Content-Transfer-Encoding: 7bit
Content-Description: Card for kf4chg
Content-Disposition: attachment;
filename="kf4chg.vcf"

begin:vcard
n:Locklear;Ed
tel;fax:904-758-5637
tel;home:904-758-8733
x-mozilla-html:TRUE
org:Amateur Radio Emergency Service;Digital ie. A.P.R.S / SSTV
adr;;;Rt 14 Box 2483;Lake City;FL;32024;USA
version:2.1
email;internet:kf4chg@atlantic.net
title:Assistant Emergency Coordinator
fn:Ed Locklear

end:vcard

-----133EED53C3D3A687C7559A83--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 17 14:55:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28902
for <lyris.aprsspec@tapr.org>; Sat, 17 Jun 2000 14:55:44 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-91445-2000.06.17-14.58.58--
lyris.aprsspec@tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 17 Jun 2000 12:55:28 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] A Proposal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130300b5718795a8f9@[198.106.196.165]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

APRS Proposal

I am considering the following capability in my version of APRS. This capability has several parts and some broad implications.

(1) There will be a "reference view" for the map. After a reference view is selected, clicking a button will return you to the same view. The map window will be the same size and the same geographical area will be shown from the same map at the same scale. This is not a big deal.

(2) Whenever a user sets a NEW reference view, a dialog box will appear, asking if this view is to be transmitted as an open-box object. The default is "NO" and the user will have to choose "YES" in order to have it sent.

(3) Such objects originating from a reference view selection will be transmitted with a standard name, perhaps "RefVw#####" (9 characters to

satisfy the naming convention for objects). The 4 "#" characters might represent a sequence number or other info yet to be specified.

Other than concerns of "clogging the channel", such a transmission should be fairly benign. Other APRS stations will interpret it as an area object. It will appear on their maps as a rectangle if the object falls within the boundaries of a map they are using. It will, if I understand the operation of other programs, fade away after a while.

(4) Other users of my software, however, on receiving an area object named "RefVw####" (or what ever its final "standard" name is) will get a dialog box asking whether or not the user want to "adopt" this reference view. If they choose "YES" it becomes their reference view but they transmit nothing (that is, THEY do not begin transmitting an area object). If they choose "NO", then nothing happens. I have not yet decided what to do if the user chooses NO and another transmission of the same view is heard. There WILL be a cautionary alert if they choose YES when there is an existing reference view.

Once adopted, any time they click the "Reference View" button, they will see (approximately) the same view as anyone else who has adopted this reference view. This reference view remains until they change it or Quit the program. The user will be able to scroll away from this view, change maps, etc, but clicking the "Reference View" button will always return them to that view.

There will be differences in map style and resolution, but the same geographical area will be displayed in every case, within the constraints of the square-root of the height and width specification. That is, the originator of the view might have it set to .081 degrees width and everyone else will see at .064 degrees width because the width is transmitted as 08.

It appears that the use of area message also limits the largest view to about 9.8 degrees (99*2 hundredths of a degree).

While this scheme is less than ideal, I have chosen it for several reasons:

- * It should have little negative effect on people who do not use my APRS implementation.
- * It uses existing protocol definitions.
- * It allows experimenting with this idea of automatic transmission of a common reference view, which should be particularly useful for event and SAR situations. It should make it very easy for a new station joining the activity to quickly see what every one else is seeing. No voice coordination is required.

* It allows exploration of methods of dealing with the acknowledged problem of reference views which extend beyond the user's map capability.

* If it proves to be useful, a better suited message type might be developed in later standards documents. These experiments should be useful in determining whether or not it IS useful.

=====

I welcome ideas, suggestions, comments, etc.

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jun 17 18:00:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA11055
for <lyris.aprsspec@tapr.org>; Sat, 17 Jun 2000 18:00:04 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 17 Jun 2000 18:59:16 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: A Proposal
In-Reply-To: <LYR11586-91445-2000.06.17-14.58.58--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-91474-2000.06.17-18.03.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10006171853280.4690-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I applaud the originality of this idea and have no objections. But the emphasis on "reference" view has nothing to do with the previous discussions of a common requirement to display a "map scale". Having said that, it seems ok to me, though I don't see it being used much. The power of APRS is that EVERY viewer has his own screen and his own ability to zoom anywhere at any time to see anything he wants. He rarely if ever remains on the whole-event-view. He focuses on what is needed at any instant in time. But I think this is a perfect application of the "AREA-BOX" feature in APRS. For whatever its value... So, ok by me.. :-)

bob

On Sat, 17 Jun 2000, Jim Wagner wrote:

> APRS Proposal
>
> I am considering the following capability in my version of APRS. This
> capability has several parts and some broad implications.
>
> (1) There will be a "reference view" for the map. After a reference view is
> selected, clicking a button will return you to the same view. The map window
> will be the same size and the same geographical area will be shown from the
> same map at the same scale. This is not a big deal.
>
> (2) Whenever a user sets a NEW reference view, a dialog box will appear,
> asking if this view is to be transmitted as an open-box object. The default
> is "NO" and the user will have to choose "YES" in order to have it sent.
>
> (3) Such objects originating from a reference view selection will be
> transmitted with a standard name, perhaps "RefVw#####" (9 characters to
> satisfy the naming convention for objects). The 4 "#" characters might
> represent a sequence number or other info yet to be specified.
>
> Other than concerns of "clogging the channel", such a transmission should
> be fairly benign. Other APRS stations will interpret it as an area object.
> It will appear on their maps as a rectangle if the object falls within the
> boundaries of a map they are using. It will, if I understand the operation
> of other programs, fade away after a while.
>
> (4) Other users of my software, however, on receiving an area object named

> "RefVw#####" (or what ever its final "standard" name is) will get a dialog
> box asking whether or not the user want to "adopt" this reference view. If
> they choose "YES" it becomes their reference view but they transmit nothing
> (that is, THEY do not begin transmitting an area object). If they choose
> "NO", then nothing happens. I have not yet decided what to do if the user
> chooses NO and another transmission of the same view is heard. There WILL
> be a cautionary alert if they choose YES when there is an existing
> reference view.
>
> Once adopted, any time they click the "Reference View" button, they will
> see (approximately) the same view as anyone else who has adopted this
> reference view. This reference view remains until they change it or Quit
> the program. The user will be able to scroll away from this view, change
> maps, etc, but clicking the "Reference View" button will always return them
> to that view.
>
> There will be differences in map style and resolution, but the same
> geographical area will be displayed in every case, within the constraints
> of the square-root of the height and width specification. That is, the
> originator of the view might have it set to .081 degrees width and everyone
> else will see at .064 degrees width because the width is transmitted as 08.
>
> It appears that the use of area message also limits the largest view to
> about 9.8 degrees (99*2 hundredths of a degree).
>
> While this scheme is less than ideal, I have chosen it for several reasons:
>
> * It should have little negative effect on people who do not use my APRS
> implementation.
>
> * It uses existing protocol definitions.
>
> * It allows experimenting with this idea of automatic transmission of a
> common reference view, which should be particularly useful for event and
> SAR situations. It should make it very easy for a new station joining the
> activity to quickly see what every one else is seeing. No voice
> coordination is required.
>
> * It allows exploration of methods of dealing with the acknowledged problem
> of reference views which extend beyond the user's map capability.
>
> * If it proves to be useful, a better suited message type might be
> developed in later standards documents. These experiments should be useful
> in determing whether or not it IS useful.
>
> =====
>
> I welcome ideas, suggestions, comments, etc.

>
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 20 10:50:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25909
 for <lyris.aprsspec@tapr.org>; Tue, 20 Jun 2000 10:50:29 -0500 (CDT)
Message-ID: <LYR11589-91999-2000.06.20-10.53.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 20 Jun 2000 16:44:12 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] APRS DECODER version 2.0 now available
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset=iso-8859-1

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <1Lfv1RAMF5T5Eww9@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

=====
ANNOUNCING <APRSdec>TM Version 2.0
THE FULL APRS DECODER PROGRAM
by Ian Wade, G3NRW
16 June 2000
=====

<APRSdec> version 2.0 is now available. <APRSdec> parses APRS packets in TNC/IGate output format or UI-View log format, producing a full decode of every data element in each packet.

<APRSdec> is a particularly useful tool for:

- o APRS software development and testing.
- o PIC development and testing.
- o Network fault-finding and diagnostics.
- o Learning about the APRS protocol.
- o Checking packet formats.

<APRSdec> version 2.0 is a significant enhancement over earlier versions. It has much improved error checking, and for the first time is provided as a Perl 4 source, allowing it to run on most platforms including DOS, Windows and Linux/Unix.

<APRSdec> is made available under GNU General Public License.

<APRSdec> is a trademark owned by Ian Wade, G3NRW.

=====
<APRSdec> FEATURES
=====

- o Runs under native DOS, Win 95/98 and Linux/Unix. (It will almost

certainly run under Windows NT and Windows 2000 as well, but this has not been tested).

- o Accepts raw input in TNC/IGate output format (TNC_header:data).
- o Accepts raw input in UI-View 2-line log format; it is no longer necessary to edit log files before using <APRSdec>. In addition, as well as decoding APRS packets, <APRSdec> also decodes the 15-digit UI-View timestamp.
- o Performs rigorous format checking, with detailed error reporting.
- o Understands position ambiguity, reporting the bounding box in which the station is located.
- o Compares lat/long position against a prefix/country database -- if the station's position appears to be outside the country, <APRSdec> reports a possible anomaly.
- o Reports data values in imperial, nautical and metric units.
- o Fully decodes Mic-E and compressed position formats.
- o Recognizes data from Kenwood TH-D7 and DM-700 radios, and changes the incorrect DM-700 APRS Data Type Identifier to "Current Mic-E Data".
- o Provides detailed weather station reports, including the calculation of windchill and dew point.
- o Decodes storm data.
- o Decodes bearing and range data.
- o Decodes DX Cluster reports, showing the data as it will appear on TH-D7 and DM-700 screens.

```
=====
SOME EXAMPLES OF <APRSdec> OUTPUT
=====
```

A simple lat/long report:

```
-----
Record #170
KE4SZT>APRS,W4NHV-9,WIDE*,WIDE/2:@270700z3408.76N/07924.60W-  John in Marion,
SC-793-
APRS Data Type= Posit w/ time. With APRS
Day= 27  Time= 07 hours 00 mins UTC
```

Lat= 34 deg 08.76 min N Long= 79 deg 24.60 min W
Icon= House QTH VHF Overlay= (none)

A raw Mic-E report. <APRSdec> recognizes this comes from a Kenwood TM-D700 radio and automatically changes the APRS Data Type to "Current Mic-E data":

Record #8051
KC7EQL>VE7VAN-3*>WIDE3-1>T8PWPW:'37]lIe-/]"55}Mark at Home awaits Sunsat
APRS Data Type= Current Mic-E data
Radio= Kenwood TM-D700
Message Type= /M2/In Service
Lat= 48 deg 07.07 min N Long= 123 deg 27.65 min W
Icon= House QTH VHF Overlay= (none)
Course= 173 deg Speed= 4 knots (4.6 mph 7.4 kph 2.1 m/s)
Altitude= 397 feet (121 meters)

A compressed lat/long position, within an Object report:

Record #1763
N9IDH>APRK11,AE9A-10*,WIDE3-2:;A016 _111826z\%H+!JvA!Sk{!
R=05280/437.051/13Khz/APRStk
APRS Data Type= Object
Object Name= 'A016 ' Object Status= Killed
Day= 11 Time= 18 hours 26 mins UTC
Lat= 81 deg 14.20 min N Long= 14 deg 04.30 min W
GPS Fix= Old (last) NMEA Source= Other Compression Origin= Compressed
Course= 296 deg Speed= 1018 knots (1171.5 mph 1885.3 kph 523.7 m/s)
Icon= Satellite/PAC Overlay= (none)

A lat/long report with position ambiguity. The station may be located anywhere inside the bounding box:

Record #121
W9ZGU>APR846,WA4WHD-3*,WIDE/V:=2559. N/08010. W-PHG6560/Carl's Castle!
APRS Data Type= Posit w/o time. With APRS
Ambiguous position. Opposite corners of bounding box:
NW Corner: Lat= 25 deg 59.99 min N Long= 80 deg 10.99 min W
SE Corner: Lat= 25 deg 59.00 min N Long= 80 deg 10.00 min W

Icon= House QTH VHF Overlay= (none)
Power= 36 watts Height above average terrain= 320 feet (97.5 meters)
Gain= 6 dB Range Circle= 41.4 miles (66.6 km) Directivity= Omni-directional

A Maidenhead Locator report. The station may be located anywhere inside the bounding box:

Record #459
CT1DBH-1>ID:[IM58IS]
APRS Data Type= Maidenhead Grid Square
Maidenhead locator bounding box:
 NW Corner: Lat= 38 deg 47.50 min N Long= 9 deg 20 min W
 SE Corner: Lat= 38 deg 45.00 min N Long= 9 deg 15 min W
**NOTE: This Maidenhead format with square brackets is obsolete.

A UI-View report, including the decoded UI-View timestamp.
(This report shows APRS Working Group Chairman John Ackermann, N8UR, jogging towards G3NRW's QTH at over 72mph -- he was on a train at the time! <APRSdec> also recognizes that John is outside the contiguous 48 states, so it questions the reported location):

Record #622
N8UR-7*>RELAY>WIDE>WIDE>WIDE2-2>U1UVXX (UI):`v9f">[/>"58}
UI-View Timestamp= 27 May 2000 12 hrs 58 mins 32 secs (PC clocktime)
APRS Data Type= Current Mic-E data
Radio= Kenwood TH-D7
Message Type= /M2/In Service
Lat= 51 deg 56.88 min N Long= 0 deg 29.74 min W
**QUESTION: Is this lat/long position reasonable?
 It seems a long way from home for this callsign.
Icon= Jogger Overlay= (none)
Course= 1 deg Speed= 63 knots (72.5 mph 116.7 kph 32.4 m/s)
Altitude= 407 feet (124 meters)

A full WX station report, with computed windchill and dewpoint:

Record #5034
KF0ZH*>APR819,GATE,WIDE2-2:@111955z4447.06N/

09329.48W_125/008g009t079r000p003....h41b10190dU2k
APRS Data Type= Posit w/ time. With APRS
Day= 11 Time= 19 hours 55 mins UTC
Lat= 44 deg 47.06 min N Long= 93 deg 29.48 min W
Icon= WX station Overlay= (none)
Wind Direction= 125 deg Speed= 008 knots (9.2 mph 14.8 kph 4.1 m/s)
Gust Speed= 9 mph (14.5 kph 4.0 m/s 7.8 knots)
Temp= 79 degF (26.1 degC) Windchill= 76.5 degF (24.7 degC)
Rain: Last hour= 0 in (0.0 mm) Last 24 hrs= 0.03 in (0.8 mm)
Since midnight= (Indeterminate)
Humidity= 41 percent Dew Point= 53.2 degF (11.8 degC)
Barometric Pressure= 1019 mbar/hP

A DX Cluster report, showing how the data will appear on
Kenwood radio displays:

Record #3852
NA4V-3>RESORC,AB4KN-2*,WIDE3-2:DX de NA4V-3 >F029@1509 F020@1503
SATS

DX Cluster Information:

TH-D7 Screen 1	TH-D7 Screen 2	TM-D700
+-----+	+-----+	+-----+
Dx:F020@1503	Dx:F020@1503	1:F020@1503 F029@1509 SATS
F029@1509		
SATS		
+-----+	+-----+	+-----+

=====
TO OBTAIN <APRSdec>
=====

<APRSdec> may be downloaded from <http://www.netro.co.uk/aprs.htm>. There are two distribution files: "aprsdec.zip" for DOS/Windows and "aprsdecu.tar" for Unix/Linux. The DOS/Windows distribution includes a suitable Perl compiler.

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [IO91SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 20 16:30:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04859
for <lyris.aprsspec@tapr.org>; Tue, 20 Jun 2000 16:30:34 -0500 (CDT)
Date: Tue, 20 Jun 2000 14:30:16 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Private Discussion <aprsdev@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
In-Reply-To: <LYR12892-90225-2000.06.11-14.59.00--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-92060-2000.06.20-16.33.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10006201423200.23771-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Not to beat a dead horse tooooo much, but has anyone checked that
"mfilter 0" is set as the default in all of the aprs packages,
including the setups for aprsd and such?

I had trouble receiving MIC-E packets at home until I set mfilter to
0. The PK-88 TNC was filtering out the non-printable characters for
me, so those characters never reached my computer. Even "mfilter 0"
could cause problems for some (few) packets, as it will filter out
any 0x00 characters.

Mfilter could be another reason that MIC-E packets are getting corrupted here and there, particularly at igates.

I haven't check though, is mfilter a TAPR-2 command? It's definitely in some AEA TNC's.

If anyone has a better solution (a way to turn of filtering altogether?), please let me know. Yes, I know that KISS mode is the proper solution.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 20 18:53:51 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20354
for <lyris.aprsspec@tapr.org>; Tue, 20 Jun 2000 18:53:47 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
Date: Tue, 20 Jun 2000 19:50:22 -0400
Content-Type: text/plain
Cc: APRS Private Discussion <aprsdev@lists.tapr.org>
References: <LYR18156-92060-2000.06.20-16.33.55--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-92060-2000.06.20-16.33.55--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-92072-2000.06.20-18.57.09--
lyris.aprsspec@tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <00062019533001.00810@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

My KPC-3 manual shows a "FILTER" command which removes

control codes \$00 to \$19 (hex) . Since Mic-E only uses 5 unprintable characters, \$1C, \$1D, \$1E, \$1F and \$7F this should not affect it.

On Tue, 20 Jun 2000, Curt Mills, WE7U wrote:

```
> Not to beat a dead horse toooooo much, but has anyone checked that
> "mfilter 0" is set as the default in all of the aprs packages,
> including the setups for aprsd and such?
>
> I had trouble receiving MIC-E packets at home until I set mfilter to
> 0. The PK-88 TNC was filtering out the non-printable characters for
> me, so those characters never reached my computer. Even "mfilter 0"
> could cause problems for some (few) packets, as it will filter out
> any 0x00 characters.
>
> Mfilter could be another reason that MIC-E packets are getting
> corrupted here and there, particularly at igates.
>
> I haven't check though, is mfilter a TAPR-2 command? It's definitely
> in some AEA TNC's.
>
> If anyone has a better solution (a way to turn of filtering
> altogether?), please let me know. Yes, I know that KISS mode
> is the proper solution.
>
> Curt Mills, WE7U                                hacker.NO_*SPAM@tc.fluke.com
> Senior Methods Engineer/SysAdmin
> "Lotto: A tax on people who are bad at math." -- unknown
> "Windows: Microsoft's tax on computer illiterates." -- WE7U
>
>
> ---
> You are currently subscribed to aprsspec as: dale@wa4dsy.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
--
```

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
```

From bounce-aprsspec-11589@lists.tapir.org Wed Jun 21 00:33:06 2000
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id AAA29006

for <lyris.aprsspec@tapr.org>; Wed, 21 Jun 2000 00:33:05 -0500 (CDT)
From: archer@eskimo.com
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs
Date: Tue, 20 Jun 2000 22:35:12 -0700 (PDT)
X-Sender: archer@gatekeeper.we7u.net
Reply-To: "Mills, Curt, WE7U" <BowHunter@mail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
APRS Private Discussion <aprsdev@lists.tapr.org>
Subject: [aprsspec] Re: MIC-E and binary encoding
In-Reply-To: <LYR12893-92072-2000.06.20-18.57.09--we7u@mail.com@lists.tapr.org>
Message-ID: <LYR11589-92128-2000.06.21-00.36.22--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.04.10006202216030.19788-100000@gatekeeper.we7u.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 20 Jun 2000, Dale Heatherington wrote:

> My KPC-3 manual shows a "FILTER" command which removes
> control codes \$00 to \$19 (hex) . Since Mic-E only uses 5 unprintable
> characters, \$1C, \$1D, \$1E, \$1F and \$7F this should not affect it.

The spec also shows that some telemetry bytes may be 0x00 - 0xff,
but I think that was only for beta version MIC-E's? How many of
those might even be around? Probably very few. I haven't looked
at the spec enough to know if there might be other bytes than can
be below 0x20 in some of the other message formats.

The AEA PK-88 manual states the default value for mfilter is
0x80. This will filter out all received control characters
except 0x0a, 0x0d, and 0x09. This means that 0x1c - 0x1f
will disappear. I set my TNC to "mfilter 0", so it'll only
filter out 0x00 bytes.

Anyone running AEA TNC's will have problems decoding MIC-E
packets correctly unless they changes mfilter from the default
value or are running KISS mode. The packets can become
corrupted and then can be relayed corrupted. The symptoms I
was seeing on Xastir with a PK-88 were that positions would
suddenly dart to the left or vertically, then return back on

track after the region of unprintable characters was crossed by the mobile. I still see that happening, but it's not my receiving station that is causing the problem anymore.

I just found an original TAPR2, Rev 2 manual, and it specifies that mfilter has a default of "none" for the TAPR-2. This manual was printed in October of 1985, so the default may be different for newer EPROM's.

Curt, WE7U. BowHunter@mail.com
<http://www.eskimo.com/~archer>

Lotto: A tax on people who are bad at math. - unknown
Windows: Microsoft's tax on computer illiterates. - WE7U.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jun 21 12:07:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA22456
for <lyris.aprsspec@tapr.org>; Wed, 21 Jun 2000 12:07:01 -0500 (CDT)
From: "Richard Carter" <rich.carter@windriver.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] net cycle time (was D700 transmit "problem")
Date: Wed, 21 Jun 2000 13:06:54 -0400
Message-ID: <LYR11589-92215-2000.06.21-12.10.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR14533-92202-2000.06.21-11.07.47--
rcarter#isi.com@lists.tapr.org>
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <NBBBJJKGMKOEJPJIFEGEEBJJIAC.rich.carter@windriver.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I dug out my spec. This is quoted from V1.0 .

2. The objective is to have a net cycle time of 10 minutes for local use. This means that within 10 minutes of arrival on the scene, it is possible to captured the entire tactical picture.
3. All stations, even fixed stations, should beacon their position at the net cycle time rate.

I suggest that users who need to send position updates more frequently consider the impact of doing so. Though it may work fine in some uncrowded areas, it may cause interference in other areas. It may be advisable to use a private frequency, so as not to interfere with others.

73's
Rich - KE1EV

-----Original Message-----

From: bounce-htaprs-14533@lists.tapr.org
[mailto:bounce-htaprs-14533@lists.tapr.org] On Behalf Of Robbie Robertson
Sent: Wednesday, June 21, 2000 12:04 PM
To: TAPR Hot Technology APRS
Cc: TAPR Hot Technology APRS
Subject: [htaprs] RE: D700 transmit "problem"

Richard Carter wrote:

>
> Two minutes sounds too frequent. I don't have my documentation with me, so
I
> can't quote this directly. If I remember, the the proper transmission
> interval should be more like 10 minutes, otherwise you will flood the net.
>
> Rich - KE1EV
>

I think this depends on what the tracker is doing and where he is at.. 10 minutes at 60/75 miles an hour???
At that speed @ 1 minute he would be outta your hair in 10 minutes, or you wouldn't have even known he was there!! :-) IMHO

Robbie

--

Are we having fun yet?

73 - Robbie - WA9INF

***** --... --...-- *****

You are currently subscribed to htaprs as: rcarter@isi.com

To unsubscribe send a blank email to leave-htaprs-14533V@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jun 21 14:38:01 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08159

for <lyris.aprsspec@tapr.org>; Wed, 21 Jun 2000 14:38:01 -0500 (CDT)

From: "Richard Carter" <rich.carter@windriver.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: [htaprs] Re: net cycle time (was D700 transmit "problem")

Date: Wed, 21 Jun 2000 15:37:16 -0400

Message-ID: <LYR11589-92251-2000.06.21-14.41.19--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="US-ASCII"

Content-Transfer-Encoding: 7bit

X-Priority: 3 (Normal)

X-MSMail-Priority: Normal

In-Reply-To: <LYR14533-92231-2000.06.21-13.20.26--rcarter#isi.com@lists.tapr.org>

Importance: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <NBBBJJKGMKOELPJIFEGIEBLJIAC.rich.carter@windriver.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

I didn't write the spec. I assume that they did an analysis to determine what kind of data rate the protocol will handle and based their net cycle recommendation on that figure. I use their recommendation to set my transmit interval to 10 minutes. If running at a significantly higher data rate interferes with the operation of the net, then (the way I read it) you

are in violation of FCC regulations. Though you could probably listen to the frequency and get a good idea how busy it is running in your local area, you probably can't determine how far your repeated signal is being transmitted. I doubt that you could determine if running a faster net cycle would cause interference. If you really need a higher update rate, then you are using the protocol for more than its intended purpose. Switching to a private frequency for that purpose sounds like the proper thing to do.

Kenwood set the default cycle time to 3-minutes. I find this odd, since it appears to violate the spec. Is everyone running at a 3-minute rep-rate?

Perhaps someone from the APRS Spec group could provide their comments?

73's
Rich - KE1EV

-----Original Message-----

From: bounce-htaprs-14533@lists.tapr.org
[mailto:bounce-htaprs-14533@lists.tapr.org]On Behalf Of Steve Bragg
Sent: Wednesday, June 21, 2000 2:18 PM
To: TAPR Hot Technology APRS
Subject: [htaprs] Re: net cycle time (was D700 transmit "problem")

Sorry, folks, but I have to speak up on this one.

Richard Carter wrote:

> 2. The objective is to have a net cycle time of 10 minutes for local use.
> This
> means that within 10 minutes of arrival on the scene, it is possible to
> captured the entire tactical picture.
> 3. All stations, even fixed stations, should beacon their position at the
> net
> cycle time rate.

Omigosh. Are you serious? This is surely NOT addressing GPS mobiles. Otherwise, what's the point? Why even have a tracker if someone won't even see you as you pass through their city?

> I suggest that users who need to send position updates more frequently
> consider the impact of doing so. Though it may work fine in some
uncrowded
> areas, it may cause interference in other areas.

It is most advisable only to transmit when there is something that has changed. Your house doesn't move, so it should beacon at the net cycle

rate. Timed rate beaconing for mobiles sends information at the wrong time, yielding excessive "spam" and a poor track at the same time. Corner-pegging and distance-pegging are a much better way, but unfortunately very few APRS versions/devices currently support them (APRS+SA, HamHUD).

> It may be advisable to use
> a private frequency, so as not to interfere with others.

I hope this sentiment is not heeded by others, because it will 1) fragment the APRS network, and 2) render precious assets such as digipeters and IGATEs unusable.

73,

Steve

```
  /  //  _//  |  /  _  \  /  |  /  /  |  /  /  |  
  /  ,<  /  /  |  /  _/  /  /  |  /  /  |  /  /  |  
  /  /  |  /  _  |  \  _  ,  /  /  /  /  |  /  /  _  |  
  /  _/  |  _/  _/  |  _/  _  _/  _/  /  _/  |  _/  _/  |
```

=====

Steve Bragg KA9MVA ka9mva@qsl.net ICQ:29816109
HamHUD APRS Mobile Terminal: www.qsl.net/ka9mva/hamhud
Owasso, Oklahoma, USA EM27ac
Owasso Amateur Radio Club www.qsl.net/oarc

You are currently subscribed to htaprs as: rcarter@isi.com
To unsubscribe send a blank email to leave-htaprs-14533V@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 26 08:42:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA25816
 for <lyris.aprsspec@tapr.org>; Mon, 26 Jun 2000 08:42:23 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 26 Jun 2000 09:41:28 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] APRS FD mode
Message-ID: <LYR11589-93036-2000.06.26-08.45.58--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10006260856190.10274-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

APRS FD ops,

The minimum number of packets required to support just 20 APRS Field Day contacts can be from 400 to over 2000. Each station having to send a QSL to every other station (including up to 5 retries each).. Obviously this is a waste of bandwidth. This FD, I experimented with an auto-APRS-FD mode where my station combined all QSL information into one or more re-usable BULLETIN packets:

BLN1CQFD :QSL 3A-MDC,W3ABC,N0KT,KC5ION,KC8UZ,WB4APR,N3KTP,N8DEU,K2SAT
BLN2CQFD :QSL 3A-MDC,N4ZQ,K4RS,KC8MZM,W8UC,N5ZNL,KC8KZM

Here the BULLETIN numbers are the 1 & 2 characters. By bundling the QSL calls in one bulletin, you improve the chances that the other stations copy it while minimizing QRM. Once it is full, then move onto BLN2CQFD. Then the decaying algorithm for APRS will concentrate on the older bulletin less and less, and place priority on the new BLN2CQFD bulletin.

DETAILS:

1. Put your FD exchange in your POSIT comment 3A-MDC for example
2. For each new station seen:
 - * Add the callsign to a single "QSL" BULLETIN line to REPLACE your previous QSL bulletin. ERASE the previous packet.
 - * If one line fills up, then move to next BLN#CQFD. The full BLN#CQFD line decays as usual to lower and lower transmit rates.

EXAMPLE:

After 1st stn BLN1CQFD :QSL 3A-MDC,W3ABC
after 2nd stn BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ
after 3rd stn BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ,W3XYZ,W5HIJ
etc BLN1CQFD :QSL 3A-MDC,W3ABC,W4XYZ,W3XYZ,W5HIJ,WB4APR,W3STL

In APRSdos, the actual Key strokes to COPY a message and add to the end are as follows:

```
S,<,#,XXXXXX  
E,#
```

Where S is for SEND, <(ENTER KEY), is to RESEND the same TOCALL (BLN1), # is the line number of the previous line, and XXXXX is the new call for the end. Then E is to erase the previous copy of the old Bulletin.

Thus, your station is never sending more than a single packet, yet that single packet is not only serving to QSL up to 8 stations at a time, it is also calling CQ and including YOUR FD exchange for everyone else.

Quite efficient. In fact, MY station was fully automatic. It did all of this unattended. It looked for any NEW station, checked to make sure it was an APRS-MESSAGE capable station (not a DIGI, WX station, or TRACKER or many others) and then added it to the BULLETIN.

For next year, I will make the above filter even more exclusive and have it ONLY try to QSL other "HUMAN" stations. Turns out, there are LOTS of APRS stations with the "lights-on, but nobody's home". To minimize QRM, I want the algorithm to ONLY try to QSL other APRS Field Day stations. This is why the BLN#CQFD includes the BULLETIN GROUP of "CQFD" so that the auto-QSO software at the other end will know to QSL back...

SCORING. According to the "lawyers", under this algorithm, if you SEE your call in anyone elses QSL Bulletin, it counts (assuming all of your outgoing packets contain your FD exchange). That is why I included the FD Exchange in the BULLETIN too.

SUMMARY. With this APRS-FD Algorithm, the number of Packets on the air for 20 stations is reduced from 400/1200 down to a minimum of 20. Yes, those 20 packets are repeated, but due to the decaying-algorithm of APRS, they fade out of the system. Just think in terms of every station on the air for FD is just repeating ONE packet. Thats no worse than NORMAL! yet it accomplishes the OBJECTIVE...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jun 26 10:20:14 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA19027
for <lyris.aprsspec@tappr.org>; Mon, 26 Jun 2000 10:20:11 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Mic-E Latitude encoding
Date: Mon, 26 Jun 2000 10:59:49 -0400
Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-93051-2000.06.26-10.23.49--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <00062611195400.00793@lab1>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

As I ready a new release of aprsd, I want to make sure I have the Mic-E converter code implimented correctly. There are differences in the way latitude is encoded in two spec documents. The "APRS Mic Encoder Message Formats" from 1997 by Alan Crosswell indicates the latitude is directly encoded in the low nibble of the ax25 destination address
eg: xxx0001 = lat digit 1
Alans Mic-E converter code simply ANDs the byte with 0x0F and prints the result as a number, 0..15, and assumes only 0..9 will actually be used.

So, Ascii "1", 0x31 = lat digit 1
and also ASCII "A", 0x41 = lat digit 1
and ASCII "Q", 0x51 = lat digit 1
Unfortunately, ASCII "Z", 0x5A = lat digit 10

The new APRS Spec requires a lookup table.
example:

ASCII "1", 0x31 = lat digit 1
ASCII "A", 0x41 = lat digit 0
ASCII "Q", 0x51 = lat digit 1
And, via table lookup, ASCII "Z", 0x5A = lat digit "SPACE"

Will someone verify that the table on page 42 of the APRS Spec is indeed correct and superceeds the information in the Alan Crosswell document.

--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 26 12:25:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA18049
for <lyris.aprsspec@tapr.org>; Mon, 26 Jun 2000 12:25:25 -0500 (CDT)
Message-ID: <LYR11589-93087-2000.06.26-12.28.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 26 Jun 2000 18:24:25 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: Mic-E Latitude encoding
References: <LYR14779-93051-2000.06.26-10.23.49--
Ian.Wade@care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-93051-2000.06.26-10.23.49--
Ian.Wade@care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <jb4uRAAJH5V5EwAt@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Dale. Alan's doc is very definitely incorrect.

In article <LYR14779-93051-2000.06.26-10.23.49--Ian.Wade@care4free.net@lists.tapr.org>, Dale Heatherington <dale@wa4dsy.net> writes

>

>As I ready a new release of aprsd, I want to make sure I have the
>Mic-E converter code implimented correctly. There are differences
>in the way latitude is encoded in two spec documents.

>The "APRS Mic Encoder Message Formats" from 1997 by Alan Crosswell
>indicates the latitude is directly encoded in the low nibble of the ax25
>destination address
>eg: xxx0001 = lat digit 1
>Alans Mic-E converter code simply ANDs the byte with 0x0F
>and prints the result as a number, 0..15, and assumes only 0..9 will
>actually be used.
>
>So, Ascii "1", 0x31 = lat digit 1

>and also ASCII "A", 0x41 = lat digit 1

This is where it falls down. It contradicts his table of latitude/ASCII characters, where "A" is shown to mean lat digit "0". Nobody spotted this before, because the original Mic-E units did not support Custom messages.

>and ASCII "Q", 0x51 = lat digit 1
>Unfortunately, ASCII "Z", 0x5A = lat digit 10

And this is what caused all the confusion recently over position ambiguity!

>
>The new APRS Spec requires a lookup table.

It doesn't actually *require* a lookup table. I intentionally introduced a lookup table because of all the confusion in Alan's doc, to purge from peoples' minds the idea that the least significant nibble always equates to the latitude digit. You obviously can still implement it by masking the least significant nibble, but you have to remember to subtract 1 if the letter is in the range A-J, and you have to remember to handle the position ambiguity characters K, L and Z specially. If you look at <APRSdec>, you'll see that the use of a table makes it bombproof, and faster.

>example:
>ASCII "1", 0x31 = lat digit 1
>ASCII "A", 0x41 = lat digit 0
>ASCII "Q", 0x51 = lat digit 1
>And, via table lookup, ASCII "Z", 0x5A = lat digit "SPACE"
>
>Will someone verify that the table on page 42 of the APRS Spec is indeed
>correct and superceeds the information in the Alan Crosswell document.
>

All of this caused me a lot of pain in verifying that the latest spec is correct. I have checked *many* live reports from IGate logs, and also from local on-air packets, to verify that the table in the latest spec is correct.

P.S. Alan's doc is also wrong in the table of latitude/ASCII characters, in that the headings on the "Message/N/W/L Bit=0" and "Message/N/W/L Bit=1" columns are transposed. This caused me a *big* headache when I started looking into this. Again, extensive checking of on-air packets proved that the table headings were indeed the wrong way round.

>

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

```
--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@arrl.net |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.netro.co.uk/aprs.htm |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 27 05:32:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA26060
for <lyris.aprsspec@tapr.org>; Tue, 27 Jun 2000 05:32:04 -0500 (CDT)
Message-ID: <LYR11589-93293-2000.06.27-05.35.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 27 Jun 2000 06:32:59 -0400
From: kf4chg <kf4chg@atlantic.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] leave-aprsspec-11602B@lists.tapr.org
Content-Type: multipart/mixed;
boundary="-----97D17C2BD08D823CAFD45CFD"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <395882DB.FED0D498@atlantic.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----97D17C2BD08D823CAFD45CFD

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

leave-aprsspec-11589P@lists.tappr.org

-----97D17C2BD08D823CAFD45CFD

Content-Type: text/x-vcard; charset=us-ascii;
name="kf4chg.vcf"
Content-Transfer-Encoding: 7bit
Content-Description: Card for kf4chg
Content-Disposition: attachment;
filename="kf4chg.vcf"

begin:vcard
n:Locklear;Ed
tel;fax:904-758-5637
tel;home:904-758-8733
x-mozilla-html:TRUE
org:Amateur Radio Emergency Service;Digital ie. A.P.R.S / SSTV
adr;;;Rt 14 Box 2483;Lake City;FL;32024;USA
version:2.1
email;internet:kf4chg@atlantic.net
title:Assistant Emergency Coordinator
fn:Ed Locklear
end:vcard

-----97D17C2BD08D823CAFD45CFD--

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jun 30 14:06:14 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA27707
for <lyris.aprsspec@tappr.org>; Fri, 30 Jun 2000 14:06:13 -0500 (CDT)

Message-ID: <LYR11589-94170-2000.06.30-14.09.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 30 Jun 2000 15:04:20 -0400
From: John Rothert <rothertj@digital.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] aprs.net 10151
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <395CEF33.AE9060C5@digital.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

What has happen to the APRServe Network - Southern Florida (aprs.net 10151). Yesterday afternoon it seemed to go down and I have not been able to connect since. The only site I can TCP too is WD4DSY in Atlanta.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jul 7 18:45:04 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA13901
for <lyris.aprsspec@tappr.org>; Fri, 7 Jul 2000 18:45:03 -0500 (CDT)
X-Authentication-Warning: eskimo.com: archer owned process doing -bs
Date: Fri, 7 Jul 2000 16:44:29 -0700 (PDT)
From: "Curt, WE7U" <archer@eskimo.com>
Reply-To: "Curt Mills, WE7U" <BowHunter@mail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "Curt Mills, WE7U" <BowHunter@mail.com>,
"Curt Mills, WE7U" <hacker@tc.fluke.com>
Subject: [aprsspec] Authentication?
Message-ID: <LYR11589-95324-2000.07.07-18.49.09--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.SUN.3.96.1000707163634.16198A-1000000@eskimo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

What options currently exist for authentication?

I'd like a program that I'm writing to cooperate with other software (like aprsd). I'd rather not call an external module for authentication, but I believe some of the APRS programs out there do just that.

This program is written in Perl 5 if that makes a difference. I don't care about license authentication, just authentication to gate the user's packets to RF.

Curt, WE7U BowHunter@mail.com
Arlington, WA, USA http://www.eskimo.com/~archer
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Jul 12 06:48:49 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA25254
for <lyris.aprsspec@tappr.org>; Wed, 12 Jul 2000 06:48:42 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tappr.org
Message-ID: <LYR11589-96091-2000.07.12-06.53.05--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 12 Jul 2000 07:51:47 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Reply-To: quesnelb@ve2.ele.etsmtl.ca
Organization: Solution Mind Ready
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Waether station
Content-Type: multipart/alternative;
boundary="-----4B6533D44E797A455E558F07"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <396C5BD3.96729ECC@ve2.ele.etsmtl.ca>
Precedence: bulk

-----4B6533D44E797A455E558F07
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi to all,

I'm part fo the VE2ETS club in Montreal, and help maintain the IGATE in Montreal. The club has had a weather station project for about a year now and is near completion. Note that it is a homebrew station that will get acquisition on a PC. Since APRS supports weather information, I Thought that it would be nice to post the information to APRS.

I'm also in a project to help with the aprsd program (as some may already know). After looking the weather section in the APRSSPEC document available on the TAPR site (needed for the proect), I found that in the weather packet, their is one bit for the source of the information, i.e. Win/MacAPRS and other choice, but I failed to find an IGATE as a possible source.

Few Question :

Quesnel
bruno.quesnel@mindready.com
VA2BMG
quesnelb@ve2.ele.etsmtl.ca
Stagiaire - MindReady Solutions
Solutions Mindready
Inc.
tel.: 514-636-6886 ext 5171
2196 32ieme Avenue
Lachine (Quebec) H8T 3H7

-----4B6533D44E797A455E558F07--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 12 08:48:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11144
for <lyris.aprsspec@tapr.org>; Wed, 12 Jul 2000 08:48:55 -0500 (CDT)
Message-Id: <LYR11589-96108-2000.07.12-08.53.15--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: cap@mail.cruzio.com
Date: Wed, 12 Jul 2000 06:47:48 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Cap Pennell <cap@cruzio.com>
Subject: [aprsspec] We getting there?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.2.7.2.20000712064009.00bbc570@mail.cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

APRS Spec 101m - May 1st, 2000

Not meaning to nag, Ian, but I'm curious. How's it coming along?
73, Cap KE6AFE

--

Cap Pennell KE6AFE
Santa Cruz, CA 95062-1002 3658.93N/12200.91W [CM86xx]
email: ke6afe@arrl.net home page: <http://members.cruzio.com/~cap>
packet radio: KE6AFE @ki6eh.#wcca.ca.usa.noam

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 12 08:51:01 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11976
for <lyris.aprsspec@tapr.org>; Wed, 12 Jul 2000 08:50:58 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Waether station
Date: Wed, 12 Jul 2000 09:43:30 -0400
Content-Type: text/plain
References: <LYR18156-96091-2000.07.12-06.53.05--dale#wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-96091-2000.07.12-06.53.05--dale#wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-96109-2000.07.12-08.55.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <00071209503702.00793@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

More than a year ago I started injecting weather data into aprs
and ran into the same problem. My weather station is completely
home made and the software is a mixture of custom Java pgm doing the data
collection
and aprsd doing the aprs data communication.
I just used "L" for the software type (L=Linux) and "dsy" (last 3 letters of my
call)
for the weather station. No one has complained so far.

Maybe there needs to be an official code for "custom made" weather station
hardware and software.

On Wed, 12 Jul 2000, you wrote:

>
> Hi to all,
>
> I'm part fo the VE2ETS club in Montreal, and help maintain
> the IGATE in Montreal. The club has had a weather station
> project for about a year now and is near completion. Note that
> it is a homebrew station that will get acquisition on a PC.
> Since APRS supports weather information, I Thought that it would
> be nice to post the information to APRS.
>
> I'm also in a project to help with the aprsd program (as some
> may already know). After looking the weather section in the
> APRSSPEC document available on the TAPR site (needed for the
> proect), I found that in the weather packet, their is one bit for
> the source of the information, i.e. Win/MacAPRS and other choice,
> but I failed to find an IGATE as a possible source.
>
> Few Question :
>
> 1- Is their any IGATE operator that have a weather station.
> If so how do you do it for packet forming
> 2- If no operator, How can I form the packet.
>
> The second question is a consequence to the other so just
> please answer either one...
>
> Thanks in advance
>
> --
> Bruno Quesnel
> VA2BMG
> Stagiaire - MindReady Solutions
> Solutions Mindready Inc.
> 2196 32ieme Avenue
> Lachine (Quebec)H8T 3H7
>
>
>

bruno.quesnel@mindready.com
quesnelb@ve2.ele.etsmtl.ca
tel.: 514-636-6886 ext 5171

Content-Type: text/html; name="unnamed"
Content-Transfer-Encoding: 7bit
Content-Description:

--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 13 08:12:47 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21597
for <lyris.aprsspec@tapr.org>; Thu, 13 Jul 2000 08:12:47 -0500 (CDT)
Message-ID: <LYR11589-96325-2000.07.13-08.17.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRSdev" <aprsdev@lists.tapr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR6757-96316-2000.07.13-07.23.30--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Findu-wrong status
Date: Thu, 13 Jul 2000 06:11:29 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <011901bfeccb\$fce44dc0\$8d93b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA21597

Perhaps, we could just append a checksum on all APRS packets. With Position and Status packets, appending a NMEA style "*XX" would not affect older programs ability to see the packets. Message packets might be a problem, perhaps, add it to the text portion of the packet, before the message number and reply/ack. I'd bet weather and telemetry would work with older programs.

The status packet:

```
>111325z[199YD]APRS is "RAD"IO
```

would be come

```
>111325z[199YD]APRS is "RAD"IO*30
```

Message packet:

```
WB4APR :Test message{01}
```

to

```
WB4APR :Test message*05{01}
```

The checksum including everything but the message numbers.

It would offer some assurance of validity to the received packet. Something that is currently lacking in the APRS protocol.

Brent KH2Z

----- Original Message -----

From: Steve Dimse <k4hg@tapr.org>

To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

Sent: Thursday, July 13, 2000 5:18 AM

Subject: [aprssig] Re: Findu-wrong status

```
> On 7/13/00 3:03 AM David Aitcheson - KB3EFS (cdjintl@clark.net) wrote:
```

```
>
```

```
> >Yep!
```

```
> >
```

```
> >Check out http://64.34.101.121/cgi-bin/find.cgi?K3RAM-1
```

```
> >
```

```
> >That is the digi at K3RAM; not some EOC.
```

```
> >
```

```
> The only other one that people had brought to my attention was the result  
> of a mangled packet. This one is caused by this packet:
```

```
>
```

```
> K3RAM-1>WIDE,WIDE,APR813,WN2IPH-15,BEACON:>041907zCumb.Cnty EOC
```

```
> WIDE/RELAY n2iph@qsl.net
```

```
>
```

```
> It was received by findu on May 2 at 025148z. It is a perfectly valid  
> appearing status packet that was sent to the APRS stream. It may be the  
> perfect cojoining of two packets or someone may have accidentally  
> generated garbage, but since it appeared on the stream, findu is correct  
> in displaying it.
```

```
>
```

```
> What I am doing is clearing all the status packets older than July 1,
```

> which will get rid of this. There is a lot more garbage on the data
> stream since I stopped policing it, and until someone takes over active
> management and generates a new validations scheme, there will be a lot of
> these sort of occurrences.

>

> Steve K4HG

>

> ---

> You are currently subscribed to aprssig as: bhildebrand@earthlink.net

> To unsubscribe send a blank email to leave-aprssig-6757S@lists.tappr.org

>

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jul 13 08:28:42 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA23856

for <lyris.aprsspec@tappr.org>; Thu, 13 Jul 2000 08:28:41 -0500 (CDT)

Message-ID: <LYR11589-96328-2000.07.13-08.32.50--

lyris.aprsspec#tappr.org@lists.tappr.org>

From: Bill Diaz <billdiaz@megsinet.net>

Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Cc: APRSdev <aprsdev@lists.tappr.org>,

APRS Spec Discussion List

<aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: [aprssig] Re: Findu-wrong status

Date: Thu, 13 Jul 2000 08:27:40 -0500

MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <01BFECA4.392E71C0.billdiaz@megsinet.net>

Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

Brent

I agree 100%. Presently, the integrity of data on the Internet feed is questionable. Mangled packets abound. One of the primary advantages of your

proposal would be greatly simplified dupe checking. Checksums could be optional and handled in much the same manner as NMEA packets.

Why couldn't a checksum be added after the message number or ack in messages?

Bill KC9XG

On Thursday, July 13, 2000 8:11 AM, Brent Hildebrand

[SMTP:bhildebrand@earthlink.net] wrote:

> Perhaps, we could just append a checksum on all APRS packets. With Position
> and Status packets, appending a NMEA style "*XX" would not affect older
> programs ability to see the packets. Message packets might be a problem,
> perhaps, add it to the text portion of the packet, before the message number
> and reply/ack. I'd bet weather and telemetry would work with older programs.

>

>

> The status packet:

>

> >111325z[199YD]APRS is "RAD"IO

>

> would be come

>

> >111325z[199YD]APRS is "RAD"IO*30

>

> Message packet:

>

> WB4APR :Test message{01}

> to

> WB4APR :Test message*05{01}

> The checksum including everything but the message numbers.

>

> It would offer some assurance of validity to the received packet. Something
> that is currently lacking in the APRS protocol.

>

> Brent KH2Z

>

> ----- Original Message -----

> From: Steve Dimse <k4hg@tapr.org>

> To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>

> Sent: Thursday, July 13, 2000 5:18 AM

> Subject: [aprssig] Re: Findu-wrong status

>

>

> > On 7/13/00 3:03 AM David Aitcheson - KB3EFS (cdjintl@clark.net) wrote:

> >

> > >Yep!

> > >

> > >Check out <http://64.34.101.121/cgi-bin/find.cgi?K3RAM-1>
> > >
> > >That is the digi at K3RAM; not some EOC.
> > >
> > The only other one that people had brought to my attention was the result
> > of a mangled packet. This one is caused by this packet:
> >
> > K3RAM-1>WIDE,WIDE,APR813,WN2IPH-15,BEACON:>041907zCumb.Cnty EOC
> > WIDE/RELAY n2iph@qs1.net
> >
> > It was received by findu on May 2 at 025148z. It is a perfectly valid
> > appearing status packet that was sent to the APRS stream. It may be the
> > perfect cojoining of two packets or someone may have accidentally
> > generated garbage, but since it appeared on the stream, findu is correct
> > in displaying it.
> >
> > What I am doing is clearing all the status packets older than July 1,
> > which will get rid of this. There is a lot more garbage on the data
> > stream since I stopped policing it, and until someone takes over active
> > management and generates a new validations scheme, there will be a lot of
> > these sort of occurances.
> >
> > Steve K4HG
> >
> > ---
> > You are currently subscribed to aprssig as: bhildebrand@earthlink.net
> > To unsubscribe send a blank email to leave-aprssi-6757S@lists.tap-
> >
> >
>
>
> ---
> You are currently subscribed to aprsspec as: billdiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprssi-11589P@lists.tap-

You are currently subscribed to aprsspec as: lyris.aprssi@tapr.org
To unsubscribe send a blank email to leave-aprssi-11589P@lists.tap-

From bounce-aprssi-11589@lists.tapr.org Thu Jul 13 08:47:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA26269
for <lyris.aprssi@tapr.org>; Thu, 13 Jul 2000 08:47:34 -0500 (CDT)
Message-Id: <LYR11589-96333-2000.07.13-08.51.57--
lyris.aprssi@tapr.org@lists.tapr.org>
Subject: [aprssi] Re: [aprssi] Re: Findu-wrong status
Date: Thu, 13 Jul 2000 09:46:33 -0400

From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRSdev" <aprssdev@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200007131347.GAA01734@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 7/13/00 9:11 AM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>Perhaps, we could just append a checksum on all APRS packets. With
>Position and Status packets, appending a NMEA style "*XX" would not affect
>older programs ability to see the packets. Message packets might be a
>problem, perhaps, add it to the text portion of the packet, before the
>message number and reply/ack. I'd bet weather and telemetry would work
>with older programs.

>

But the problem is where do you add the checksum?

If at the transmitter, that means all D7's, D700's, Mic-E's and stand
alone (NMEA) trackers need firmware upgrades. And who cares about
compatibility with old software, they all would need to upgrade or their
data would be lost.

If you do it at the IGates, it doesn't solve the problem. All the
instances I tracked down were occuring within or before an IGate. So the
bad packets have a good checksum appended to them by the IGates.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jul 13 11:14:39 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19335
for <lyris.aprsspec@tappr.org>; Thu, 13 Jul 2000 11:14:34 -0500 (CDT)
Date: Thu, 13 Jul 2000 09:14:07 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: [aprssig] Re: Findu-wrong status
In-Reply-To: <LYR12892-96333-2000.07.13-08.51.57--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-96354-2000.07.13-11.18.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10007130852540.596-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 13 Jul 2000, Steve Dimse wrote:

> On 7/13/00 9:11 AM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >Perhaps, we could just append a checksum on all APRS packets. With
> >Position and Status packets, appending a NMEA style "*XX" would not affect
> >older programs ability to see the packets. Message packets might be a
> >problem, perhaps, add it to the text portion of the packet, before the
> >message number and reply/ack. I'd bet weather and telemetry would work
> >with older programs.
> >
> But the problem is where do you add the checksum?

Adding it ANYWHERE would be a start. Bit errors can occur at all stages. Let's attack it where we can. This certainly sounds like a good candidate for a "recommended" option for the 2nd version of the protocol.

How about a CRC-16 checksum (or better) instead of the NMEA-style. Better at catching certain types of errors. Making it optional is good. We could migrate to the new system over a period of years.

I haven't a clue how to shoehorn it into the current protocol. I certainly wouldn't mind burning new firmware for my systems to get checksums added.

Curt Mills, WE7U
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U
hacker.NO_*SPAM@tc.fluke.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jul 15 09:01:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA01486
for <lyris.aprsspec@tapr.org>; Sat, 15 Jul 2000 09:01:17 -0500 (CDT)
Message-ID: <LYR11589-96693-2000.07.15-09.05.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR6757-96576-2000.07.14-13.13.14--
bhildebrand@earthlink.net@lists.tapr.org> <LYR15266-96614-2000.07.14-16.18.28--
aprs#wa4dsy.net@lists.tapr.org> <LYR6757-96628-2000.07.14-18.42.47--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: MIC-E duplicate packets
Date: Sat, 15 Jul 2000 07:00:57 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
X-MIME-Autoconverted: from 8bit to quoted-printable by swan.prod.itd.earthlink.net
id HAA28932
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <002801bfee65\$2dfc99e0\$d792b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA01486

Here is some data taken from the Internet feed today.

KB2WQM-9>APK001:@151441z3911.00N/07444.93W[000/000/Mic-E/M4/Committed>kb2wqm@amsat.org

KB2WQM-9>3YQQ0Q: `fHz1 Å[/>kb2wqm@amsat.org

KB2WQM-9>APRS:@151338z3911.00N>07444.93W/063/000/Mic-E/M4/Committed>kb2wqm@a

msat.org

KB2WQM-9>APRS:@151337z3911.01N/07444.94W[000/000/T>dsy/M4/Committed.
kb2wqm@amsat.org

KB2WQM-9>APK:@151337z3911.01N/07444.94W[000/000/TH-D7/M4/COMMITTED>kb2wqm@amsat.org

NOTE: There are 4 separate conversions. 2 by WinAPRS, 1 by APRS+SA and 1 by APRSD. The Mic-E packet is shown, but probably is not faithfully reproduced by my Email program.

Packet 1: WinAPRS. The to field is APK001. This is true even for D700 radios which use APK101. The origin is stated to be Mic-E, but in fact, is TH-D7, a Mic-E variant. The time is way off compared to the other packets below

Packet 2: The Mic-E packet.

Packet 3: Origin? I suspect winAPRS. Note that the Icon is encoded incorrectly.

Packet 4: APRSD conversion. The origin is stated to be T>dsy. Was it TH-D7 or TM-D7? This is lost. Icon is OK.

Packet 5: This was converted by APRS+SA. TO field is APK, meaning Kenwood. The origin is the TH-D7. Icon is OK, Lat/Long agree with APRSD. Even the TIME was the same.

This is an impossible situation to remove duplicates. Lat/Long are different by .01 minute. Not significant when plotting on a map, but hard to figure out when removing duplicates. TIME, while packet 1 has reasonable Lat/Long and correct Icon, the time is vastly different than packets 3,4 and 5. Packets 3 is just plain fubar with respect to Icon. Packets 4 and 5 agree very closely. But deduping? Arrgh.

Conclusions:

Mic-E data is all messed up. Clearly, converting Mic-E to a "standard" APRS packet is not working. One solution is converting the Internet side to APRSD. This could be a hardship for Mac owners running APRServe. This would still require that ALL client programs be updated to remove the Mic-E conversion code. What should be done???

Brent KH2Z

----- Original Message -----

From: "Dale Heatherington" <dale@wa4dsy.net>

To: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>

Sent: Friday, July 14, 2000 4:21 PM

Subject: [aprssig] Re: MIC-E duplicate packets

> Ok, show of hands: Which APRS programs that connect to the internet
> can't pass the 5 unprintable Mic-E characters either on RX or TX, yet can
> deal with them to/from the TNC?
>
> Which programs can't deal with raw MIC-E packets and need to
> see the converted form?
>
> aprsd has no trouble with these and could pass Mic-E packets in their
> original format. Mild side effect: The current dup checker does not look
at the ax25 destination
> so would ignore that field even though it's part of MIC-E data. Maybe
could be handled special....
>
> On Fri, 14 Jul 2000, you wrote:
> >
> > First, I agree, if we convert, then do not sent the original. Second,
APRSd
> > should not be converting packets unless it heard them on RF. Conversion
is
> > the sole responsibility of the hearing station. Lastly, we should have
a
> > mechanism to pass the original packet through and never do a false
> > conversion. This has been discussed before, and I believe can easily
solved
> > by using any of the standard Internet encoding schemes. We would then
see
> > the actual original data as it was transmitted.
> >
> > Brent KH2Z
>
> --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page <http://www.wa4dsy.net>
> Sent by KMail for Linux
>
>

> ---
> You are currently subscribed to aprssig as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprssi-6757S@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jul 15 11:23:13 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA22175
for <lyris.aprsspec@tappr.org>; Sat, 15 Jul 2000 11:23:10 -0500 (CDT)
Date: Sat, 15 Jul 2000 12:22:48 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Subject: [aprsspec] Re: [aprssi] Re: MIC-E duplicate packets
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Reply-to: quesnelb@ve2.ele.etsmtl.ca
Message-id: <LYR11589-96708-2000.07.15-11.27.34--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0
Content-type: MULTIPART/ALTERNATIVE; BOUNDARY="Boundary_(ID_91dCch11K/
ETa9zCHF1b4g)"
X-Accept-Language: en
References: <LYR6757-96576-2000.07.14-13.13.14--
bhildebrand#earthlink.net@lists.tappr.org>
<LYR15266-96614-2000.07.14-16.18.28--aprs#wa4dsy.net@lists.tappr.org>
<LYR6757-96628-2000.07.14-18.42.47--bhildebrand#earthlink.net@lists.tappr.org>
<LYR15694-96693-2000.07.15-09.05.43--quesnelb#ve2.ele.etsmtl.ca@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <39708FD7.6BE7A864@ve2.ele.etsmtl.ca>
Precedence: bulk

--Boundary_(ID_91dCch11K/ETa9zCHF1b4g)
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Brent Hildebrand wrote:

```
>
> This is an impossible situation to remove duplicates. Lat/Long are
> different by .01 minute. Not significant when plotting on a map, but hard
> to figure out when removing duplicates. TIME, while packet 1 has
> reasonable Lat/Long and correct Icon, the time is vastly different then
> packets 3,4 and 5. Packets 3 if just plain fubar with respect to Icon.
> Packets 4 and 5 agree very closely. But deduping? Arrgh.
>
> Conclusions:
> Mic-E data is all messed up. Clearly, converting Mic-E to a "standard"
> APRS packet is not working. One solution is converting the Internet side to
> APRSD. This could be a hardship for Mac owners running APRServe. This
> would still require that ALL client programs be updated to remove the Mic-E
> conversion code. What should be done???
>
> Brent KH2Z
```

Since so many program exist, it's pretty hard to get every body on the same foot to dance...

In my opinion, any "presentation" program (program taht presents the packet on a map graphically) that can connect both on a serial port for RF info and onto the internet, should be the one to convert the packets, which they already do.

The IGATE should only be there to pass information that they hear on the RF (whichever way to listen) and render these packet onto the internet for other to come and get. Even if the IGATE keeps the conversion capabilities, onely one side of the fence should do it.

When this is done, packet dups whould be reduced, on the internet side anyway... Also an important point is to get the proper "standard" implemented in whichever program so that no confusion occurs.

--

Bruno Quesnel	va2bmg@videotron.ca
Genie Electrique	quesnelb@ve2.ele.etsmtl.ca
Electrical Engineering	VA2BMG
Ecole de Technologies Superieure	http://www.findu.com/cgi-bin/find.cgi?va2bmg

--Boundary_(ID_91dCch1lK/ETa9zCHF1b4g)
Content-type: text/html; charset=us-ascii
Content-transfer-encoding: 7bit

<!doctype html public "-//w3c//dtd html 4.0 transitional//en">

!205.148.193.163:N5FAZ-2 Data error!=3147.16N/10622.91WIPHG2130/paul
faz@dzn.com -TXELPELPASO -330-<062>

Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jul 16 08:21:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21120
for <lyris.aprsspec@tapr.org>; Sun, 16 Jul 2000 08:21:36 -0500 (CDT)
Message-Id: <LYR11589-96843-2000.07.16-08.25.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] APRS Symposium at DCC
Date: Sun, 16 Jul 2000 09:19:57 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200007161320.GAA21993@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Once again it is time to start planning for the APRS Symposium at the
Digital Communication Conference. It will be held Friday, Sept 22, 2000
in Orlando. More info on the conference is available at

<http://www.tapr.org/dcc>

This is as close as APRS comes to a national convention, past years have
drawn most of the movers and shakers within APRS. If you love APRS,
you'll love the Symposium!

The APRS Symposium will run roughly from 1PM to 7PM, exact times to be
determined. Undoubtably the usual suspects will be presenting, but I
especially want to encourage people that haven't presented before to do
so.

Anyone (including the usual suspects, I will not chase you down this

year) that will be there and wishes to present should notify me within the next week, including the topics you wish to present and the amount of time you would like.

If you aren't going to DCC but have something to share, consider submitting it for publication in the proceedings anyway, it is a good way to get information published. Deadline is August 7, details on submission are available at the above DCC web site.

See you there!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jul 17 15:21:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA29472
for <lyris.aprsspec@tapr.org>; Mon, 17 Jul 2000 15:21:39 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Internet Gating
Date: Tue, 18 Jul 2000 06:27:18 +1000
Message-ID: <LYR11589-97095-2000.07.17-15.26.17--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000401bfff02d\$681eb260\$32ae2acb@de11.radioactive.net.au>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day All,

Simple question on intnetnet gating: Should packets that have been forwarded from the internet to RF ever be forwarded back to the internet?

For Example

VK2TDS -> INTERNET -> VK2HDJ -> RF -> VK2XGJ -> INTERNET

Should this never happen... It would make network design much easier

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jul 17 15:30:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00946
for <lyris.aprsspec@tapr.org>; Mon, 17 Jul 2000 15:30:53 -0500 (CDT)
Message-Id: <LYR11589-97096-2000.07.17-15.35.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Internet Gating
Date: Mon, 17 Jul 2000 16:30:02 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200007172030.NAA27304@falcon.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 7/17/00 4:27 PM Darryl Smith (darryl@radio-active.net.au) wrote:

>Simple question on intnetnet gating: Should packets that have been forwarded
>from the internet to RF ever be forwarded back to the internet?

>

No, but even if they are they are filtered out by aprsd and APRServe.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 18 20:23:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA21320
for <lyris.aprsspec@tapr.org>; Tue, 18 Jul 2000 20:23:14 -0500 (CDT)
User-Agent: Microsoft-Outlook-Express-Macintosh-Edition/5.02.2022
Date: Tue, 18 Jul 2000 21:20:43 +0000
Subject: [aprsspec] 19th Annual ARRL and TAPR Digital Communications Conference
From: Stan Horzempa <stanzepa@mail2.nai.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-97266-2000.07.18-20.27.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <B59A7AAB.9BB%stanzepa@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA21320

Press Release: July 6th, 2000

19th Annual ARRL and TAPR Digital Communications Conference

2000 ARRL and TAPR Digital Communications Conference
September 22-24, 2000
Orlando, Florida

It is that time again! Time to start making your travel plans and thinking about what to publish for the upcoming 19th Annual ARRL and TAPR Digital Communications Conference.

The ARRL and TAPR Digital Communications Conference is an international

forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital expert, but for digitally-oriented amateurs of all levels of experience.

The 2000 ARRL and TAPR Digital Communications Conference will be held September 22-24, 2000 in Orlando, Florida. This year's conference location is just minutes away from the Orlando International Airport (MCO).

Not only is the Digital Communications Conference technically stimulating, it is a weekend of fun for all who have more than a casual interest in any of the ham digital communications modes. This includes networkers, sysops, software writers, modem designers, and digital satellite communications enthusiasts. The ARRL and TAPR Digital Communications Conference is for all levels of digital operators -- a must conference to attend to get active on a national level. Now, more than ever, amateur radio needs this great meeting of the minds, since it is important that we demonstrate a continued need for the frequency allocations we now have by pushing forward and documenting our achievements. The ARRL and TAPR Digital Communications Conference is one of the few ways to record our accomplishments and challenge each other to do more.

Area Attractions

The Orlando Florida area is famous for its attractions and vacation spots.† Disney World, Universal Studios, and Sea World (just to name a few) are within 15 minutes of the hotel. Shuttle service from the hotel will be available for a small fee. Cape Canaveral and Cocoa Beach are a 30 minute drive East of the hotel.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 19 09:27:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA23716
for <lyris.aprsspec@tapr.org>; Wed, 19 Jul 2000 09:27:49 -0500 (CDT)
Message-Id: <LYR11589-97378-2000.07.19-09.32.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] APRS Symposium at DCC
Date: Wed, 19 Jul 2000 10:26:29 -0400

From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200007191426.HAA07951@falcon.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>Anyone (including the usual suspects, I will not chase you down
>this year) that will be there and wishes to present should notify
>me within the next week, including the topics you wish to present
>and the amount of time you would like.

So far, with half the week gone, I have gotten requests from only these people:

The Sproul Brothers
John Hansen
Tom Schaefer
John Blowsky
Darryl Smith

If you are going to be at the DCC and wish to talk at the APRS symposium, you must let me know in the next few days. Please include the topic and the length of time you would like.

APRS AUTHORS TAKE NOTE

I am not chasing people down, if I don't hear from you by Sunday I will presume you do not wish to present. There are simply too many authors now for me to do this individually...

Everyone else take note

I'd love to see more of you presenting!

Thanks,

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jul 20 19:46:18 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA04832
for <lyris.aprsspec@tappr.org>; Thu, 20 Jul 2000 19:46:15 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-97691-2000.07.20-19.50.50--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Thu, 20 Jul 2000 20:48:04 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>,
aprsspec@lists.tappr.org
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
References: <LYR18229-97657-2000.07.20-13.44.18--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=x-user-defined
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <39779DC4.E64F2D09@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

> My thoughts are you simply look at the data. If you see something like
> this:
>
> de WB4APR @FM18SX

> then you interpret the FM18SX as a grid square and plot him. Nothing
> more. Im not suggesting using PSK31 for APRS at all.

I don't understand this, you say your not suggesting using PSK31 for APRS
yet your saying you interpret FM18SX as a grid square and plot it. The
implication here is you plot on a computer map.... or are you just suggesting
using paper?

Assuming the former, lets look at your suggesting for plotting position using
grid squares:

... de WB4APR @FM18SX...

Looks good, but without understanding how varicode works its far to verbose.
Seems strange to say this, but with PSK31 we don't have the luxury of 1200
baud.... the data stream is only 31bps. Maybe a link to the theory of varicode
would
be helpful:

[http://www.kender.es/~edu/psk31theory.html#Information Coding](http://www.kender.es/~edu/psk31theory.html#Information%20Coding)

OK, so lets look at how long your example is:

de WB4APR @FM18SX which is 17 chars including the de, space and delimiter.

Now, transcribing this to varicode we get the following (bit length under char)

d	e	_	W	B	4	A	P	R	_	@	F	M	1	8	S	X
6	2	1	9	8	8	7	8	8	1	10	8	8	8	9	7	9

for a total of 117 bits + (16*2 sync bits) = 149 bits @31bps = 4.8 seconds
to send a very ambiguous posit that is not very computer friendly.

another way to do it would be as follows and could be part of the PSK31
ID string delimited as follows:

<call in lower case><aprs delimiter><lat><lon><optional checksum>
example for lat 39.0858, lon 763601 (note "_" is space):

wb4apr-ts_rarln_tn_e (see conversion table below)

Now, transcribing this to varicode we get the following (bit length under char)

w	b	4	a	p	r	-	t	s	_	r	a	r	l	n	t	n	_	e
7	7	8	4	5	5	6	3	5	1	5	4	5	5	4	3	4	1	2

for a total of 84 bits plus (18*2 sync bits) = 122 bits @31bps = 3.9 seconds.
A ~19% savings in air time giving a precise posit that is very computer
friendly. This could be a standard ID frame that is sent with each station.

here is the conversion table:

Char	bit pattern	Could be?
SPACE	1	0
e	11	1
o	111	2
t	101	3
i	1101	4

a	1011	5
n	1111	6
l	11011	7
r	10101	8
s	10111	9

Now, taking this a step further, we could go with base100 for our lat/lon and save those two bits for sync on the lat lon chars (as we are going from 12 chars to 6). We offset with 32 then take the four smallest varicodes from under 32 as 0-3 (all varicodes under 32 are 10 bit) and this gives us a average varicode length of about 8.

So we could have something like this for lat 39.0858, lon 76.3601

wb4apr-C\$Vh@<LF>

Now, transcribing this to varicode we get the following (bit length under char)

w	b	4	a	p	r	-	C	\$	V	h	@	<LF>
7	7	8	4	5	5	6	8	9	9	6	10	5

for a total of 89 bits plus (12*2 sync bits) = 113 bits @31bps = 3.6 seconds which is a 25% savings in air time.

Now, I haven't consider the ones place or sign for either lon or lat, but this could be delt with in the delimiter field.

The advantages are:

1. A easily machine parsable format
2. Far more precise location then "grid squares"
3. A significant savings in air time.

Give it some thought.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 21 12:57:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA10164

for <lyris.aprsspec@tapr.org>; Fri, 21 Jul 2000 12:57:03 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 21 Jul 2000 13:56:37 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>, aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
In-Reply-To: <39779DC4.E64F2D09@aerodata.net>
Message-ID: <LYR11589-97817-2000.07.21-13.01.46--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10007211321430.23187-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff,

I am approaching a merging of APRS display technology from the perspective of the existing PSK31 user base. Look at any PSK31 QSO. They already use GRID SQUARES. SO parsing and displaying that in APRS is a natural, and can be done NOW and requires NO CHANGE IN existing operator technique. You do it on receipt... Thus you can begin plotting people NOW.

Your unique selection of varicode characters can save 19% over a "grid square" but I bet you will never convince anyone to use it. And it must be implemented by all SENDERS before it has any value. Good luck...

You are trying to optimize around "computer friendly". I am trying to optimize around "user friendly" and taking advantage of existing use...

On Thu, 20 Jul 2000, Jeff King wrote:

> > Bob suggested parsing: de WB4APR @FM18SX
>

> > ... as a grid square and plot him. Nothing more simpler than that.

> Looks good, but without understanding how varicode works its far to verbose.

I understand how varicode works. I also understand how operators work and how they are already using gridsquares and they could care less about changing just so us APRS people can plot them...

> Now, transcribing this to varicode... 117 bits ... or.. 4.8 seconds to
> send a very ambiguous posit that is not very computer friendly.

Not ambiguous at all when you consider that PSK31 is being used on HF,
Internationally. The Grid plots the guy to within less than 2 miles in
most areas of the world and is well close enough for an HF DX contact in
my thinking...

> [ALTERNATELY consider:] wb4apr-ts_rarln_tn_e
>
> Now, transcribing this to varicode we get 84 bits for 3.9 seconds.
> A ~19% savings in air time...

Savings? You saved 0.9 seconds in a 1 minute long transmission...

> giving a precise posit that is very computer friendly.

PSK31 does not need to be computer friendly at all. With its VERY
precious bandwidth, it needs to be MAXIMALLY *user friendly*. With the
computer power we have today, we should make the computers work for US,
not make us REDEFINE HAM radio QSOs so the "computer" is happy...

> Now, taking this a step further...: wb4apr-C\$Vh@<LF>
> ...ranscribing this to varicode we get a 25% savings in air time.

No, you get another 0.3 seconds saved in a 1 minute QSO... Savings?

> The advantages are:
> 1. A easily machine parsable format
> 2. Far more precise location then "grid squares"
> 3. A significant savings in air time.

Ah, BUT... DISADVANTAGES:

1. No one will use it.

> Give it some thought...

I already did a year ago and suggested something like it to Peter Martinez
back then, but we both concluded it wouldnt fly. Grids are already in
use. We use them in APRS too, so it just seemed like the logical way to
go...

It is very easy to write a parser that can recognize a GRID SQUARE just
about anywhere in free form TEXT. APRSdos, WinAPRS and APRS+SA and maybe
others already have such algorithms..

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 21 13:34:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15232
for <lyris.aprsspec@tapr.org>; Fri, 21 Jul 2000 13:34:21 -0500 (CDT)
Message-ID: <LYR11589-97822-2000.07.21-13.38.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Thomas M. Schaefer" <ny4i@arrl.net>
From: "Thomas M. Schaefer" <toms@inconnect.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
<aprsspec@lists.tapr.org>
References: <LYR11918-97817-2000.07.21-13.01.46--
toms#inconnect.com@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
Date: Fri, 21 Jul 2000 12:34:49 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <012901bff342\$6e4f8700\$6ec6ed89@SC017588>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff, Bob, et al...

I tend to agree with Bob on this one. I say that fully understanding the ramifications of even uppercase characters in varicode. This is not intended to be a system to replace what goes on HF packet. My idea was so that when someone is out in the field, they can send a message or a posit back via

PSK31 because with a mobile rig and a computer, I think I can get into the network better on PSK31. If we talk about 1 watt, a battery, and a dipole, the odds of success over HF packet go even higher. Perhaps, my approach of a PSK31-based mail exchange system is different than just a posit-type system. Remember that my idea was to put a macro in an existing program like Digipan. If we make the data computer-friendly, then no one will be able to put it in Digipan.

Tom NY4I

----- Original Message -----

From: "Bob Bruninga" <bruninga@nadn.navy.mil>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>;
<aprsspec@lists.tapr.org>

Sent: Friday, July 21, 2000 11:56 AM

Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31

> Jeff,

> I am approaching a merging of APRS display technology from the perspective
> of the existing PSK31 user base. Look at any PSK31 QSO. They already use
> GRID SQUARES. SO parsing and displaying that in APRS is a natural, and
> can be done NOW and requires NO CHANGE IN existing operator technique.
> You do it on receipt... Thus you can begin plotting people NOW.

>

> Your unique selection of varicode characters can save 19% over a "grid
> square" but I bet you will never convince anyone to use it. And it must
> be implemented by all SENDERS before it has any value. Good luck...

>

> You are trying to optimize around "computer friendly". I am trying to
> optimize around "user friendly" and taking advantage of existing use...

>

> On Thu, 20 Jul 2000, Jeff King wrote:

>

> > > Bob suggested parsing: de WB4APR @FM18SX

> >

> > > ... as a grid square and plot him. Nothing more simpler than that.

>

> > Looks good, but without understanding how varicode works its far to
verbose.

>

> I understand how varicode works. I also understand how operators work and
> how they are already using gridsquares and they could care less about
> changing just so us APRS people can plot them...

>

> > Now, transcribing this to varicode... 117 bits ... or.. 4.8 seconds to
> > send a very ambiguous posit that is not very computer friendly.

>

> Not ambiguous at all when you consider that PSK31 is being used on HF,
> Internationally. The Grid plots the guy to within less than 2 miles in
> most areas of the world and is well close enough for an HF DX contact in
> my thinking...
>
> > [ALTERNATELY consider:] wb4apr-ts_rarln_tn_e
> >
> > Now, transcribing this to varicode we get 84 bits for 3.9 seconds.
> > A ~19% savings in air time...
>
> Savings? You saved 0.9 seconds in a 1 minute long transmission...
>
> > giving a precise posit that is very computer friendly.
>
> PSK31 does not need to be computer friendly at all. With its VERY
> precious bandwidth, it needs to be MAXIMALLY *user friendly*. With the
> computer power we have today, we should make the computers work for US,
> not make us REDEFINE HAM radio QSOs so the "computer" is happy...
>
> > Now, taking this a step further.... wb4apr-C\$Vh@<LF>
> > ...ranscribing this to varicode we get a 25% savings in air time.
>
> No, you get another 0.3 seconds saved in a 1 minute QSO... Savings?
>
> > The advantages are:
> > 1. A easily machine parsable format
> > 2. Far more precise location then "grid squares"
> > 3. A significant savings in air time.
>
> Ah, BUT... DISADVANTAGES:
>
> 1. No one will use it.
>
> > Give it some thought...
>
> I already did a year ago and suggested something like it to Peter Martinez
> back then, but we both concluded it wouldnt fly. Grids are already in
> use. We use them in APRS too, so it just seemed like the logical way to
> go...
>
> It is very easy to write a parser that can recognize a GRID SQUARE just
> about anywhere in free form TEXT. APRSdos, WinAPRS and APRS+SA and maybe
> others already have such algorithms..
>
> bob
>
>
>

>
> ---
> You are currently subscribed to aprsspec as: toms@inconnect.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jul 21 14:41:52 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA25470
for <lyris.aprsspec@tappr.org>; Fri, 21 Jul 2000 14:41:44 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-97828-2000.07.21-14.46.21--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 21 Jul 2000 15:42:32 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>,
aprsspec@lists.tappr.org
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
References: <Pine.GS0.4.05L.10007211321430.23187-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3978A7A7.850249AE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

> I am approaching a merging of APRS display technology from the perspective
> of the existing PSK31 user base.

Which is fine. But I was approaching it from the perspective of the APRS user base..... tracking assets. I have little interest in HF chit chatting but if one can bootstrap off existing technology to enhance amateur AVL, which is my interest, then I think we should.

- > Look at any PSK31 QSO. They already use
- > GRID SQUARES. SO parsing and displaying that in APRS is a natural, and
- > can be done NOW and requires NO CHANGE IN existing operator technique.
- > You do it on receipt... THus you can begin plotting people NOW.

Why can't we do both then? I'm interested in tracking assets, not peoples houses. As such, I need to target platforms that will support this. A laptop in a vehicle is not practical in all applications. However, a PIC processor is. And there already is open source PSK31 code out for the PIC. Sure, I could send grid squares with the PIC, but gezz, how big would the look-up table be? I'd have to relate lat/long to every grid square. Why not just make life easier for everyone and just send lat/lon as that's what the GPS gives me?

- > Your unique selection of varicode characters can save 19% over a "grid
- > square" but I bet you will never convince anyone to use it. And it must
- > be implemented by all SENDERS before it has any value. Good luck...

Actually, I was trying to convince you to look at the big picture here since we have a relatively clean slate. I'm not saying not to use grid squares, I was suggesting a alternate method that allowed the use of a GPS to track assets using a minimal processor. As a side benefit, it could be more compact then grid squares, easier to parse and more precise.

Bob, I don't understand your resistance here.... you have what, four or five different ways to say the same thing on AX.25 aprs?!? I was throwing some ideas out here and thought I could get some dialog on the issue... so far I've gotten one guy arguing the merits of RTTY over PSK31 and now you shooting the idea down before it even gets out the gate. I think what I had was a very good way to use PSK31 to track assets..... yes I should code something up, but that shouldn't curtail intelligent conversation on the subject.

- > You are trying to optimize around "computer friendly". I am trying to
- > optimize around "user friendly" and taking advantage of existing use...

Yes, guilty on all counts.. I don't care at all about existing use.... I'll use the internet to chat with someone sitting at their house. What I was interested in was bootstrapping a existing technology into tracking mobile assets. Seemed like a good fit to me.

- > > Looks good, but without understanding how varicode works its far to verbose.

>
> I understand how varicode works. I also understand how operators work and
> how they are already using gridsquares and they could care less about
> changing just so us APRS people can plot them...

The application of PSK31 Thomas suggested and I expanded upon does not yet exist. So the existing "user base" is irrelevant. Its just a modulation method Bob,
that's all. I could (almost) care less about the existing user base as any tracking operations would not be on the same frequency as the existing user base.

> > Now, transcribing this to varicode... 117 bits ... or.. 4.8 seconds to
> > send a very ambiguous posit that is not very computer friendly.
>
> Not ambiguous at all when you consider that PSK31 is being used on HF,
> Internationally. The Grid plots the guy to within less than 2 miles in
> most areas of the world and is well close enough for an HF DX contact in
> my thinking...

If there is no APRS coverage in a particular area, AND I can send locations to within 10's of feet, why not do it? I'm not going to jump on the emergency bandwagon, but in some terrain's a grid square would be close to useless in locating someone.

Again, I think the basic misunderstanding here is you are interested in tracking houses (which don't move) and I am interested in tracking assets (which do). Why close your mind at the beginning of the game? I'm not saying what I suggested was the way to go, but just because you don't see things that way doesn't mean they can't be used that way. Don't tell me about how the users won't accept it... tell me why it won't work or why you will not support it within the context of your role in APRS.

> With its VERY
> precious bandwidth, it needs to be MAXIMALLY *user friendly*. With the
> computer power we have today, we should make the computers work for US,
> not make us REDEFINE HAM radio QSOs so the "computer" is happy...

PSK31 is a mode. It has nothing to do with a QSO. Yes, it was optimized for QSO's and frankly, posits would be better served by tossing varicode, yet I am aware of the value of bootstrapping.

> > Now, taking this a step further.... wb4apr-C\$Vh@<LF>
> > ...ranscribing this to varicode we get a 25% savings in air time.
>
> No, you get another 0.3 seconds saved in a 1 minute QSO... Savings?

The example I gave where ID/posit frames. Self supporting. Nothing to do

with QSO's. Savings as posted.

Again, you are putting your views in what APRS should be into this discussion, which is coloring your thinking. It appears to me your goal is to "sell" APRS to the existing PSK31 user base. This is fine, but it is a separate discussion. If you go back to the original posting that started this thread, you'll see the poster clearly wanted to graft PSK31 to APRS, not graft APRS to the PSK31 user base. As such, my comments about air time savings are entirely relevant and correct. (although it appears now he strangely agrees with you.... not matter, doesn't change my thoughts)

> Ah, BUT... DISADVANTAGES:
>
> 1. No one will use it.

Yes, indeed, especially with the overwhelming support I am seeing from you.

> It is very easy to write a parser that can recognize a GRID SQUARE just
> about anywhere in free form TEXT. APRSdos, WinAPRS and APRS+SA and maybe
> others already have such algorithms..

OK, then lets get back on focus in your line of thought. I am willing to roll over and play dead if you help me here.

I've been looking at PSK31 for use in trackers. Even posted some mind storms on it back in January on the PICSIG. A fellow has written some PIC source with CCS C compiler to do PSK31 and it is freely available. Its actually everything all rolled into one. I've gone through the source, and it looks like I can do what I want.

Yet you say its very easy to write these parsers for grid squares, or in the case of a tracker, the lookup table to convert a precise lat/lon to a fairly imprecise grid square. Yet you are laboring under the false assumption that a PIC is a full blown PC. Its not. It only has up to 368 bytes of RAM and often less then 4K of memory. As such, the direct path is often the best path to take. In this case, directly sending lat/lon instead of having a large lookup table with grid squares. Yes, pick and chose your varicode, but still way smaller then a massive lookup tree.

So... suggest a method to do these grid square lookups then in these

constraints... maybe you
know something I don't about putting 300lbs of groceries in a 5lb bag.

And if anyone is interested in this project, I can try to help. I'm busy now
myself with
another AVL project, but I'd like to help anyone I can here. I've talked with the
author of the PIC PSK31 transmitter, and he was very supportive of anyone grafting
APRS support onto it. See http://www.ussc.com/~turner/psk_transmitter.html
It is written in CCS PCM, and I can help anyone with this if need be (I've written
alot of PIC code myself on CCS, and even a few little things for the TAPR
project).

So however we do it.... grid squares or real lat/lons, we are alot closer to a PIC
based PSK31 tracker then we think. Most of the work is already done. Lets not
throw the baby out with the bath water in our passion. Worst case, we can just
start with a inefficient, but existing APRS protocol and work down from there, but
IMHO, grid squares/lookup tables are not practical in most mobile trackers.

Regards,

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 21 15:09:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00629
for <lyris.aprsspec@tapr.org>; Fri, 21 Jul 2000 15:09:11 -0500 (CDT)
Message-ID: <[LYR11589-97830-2000.07.21-15.13.56--
lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-97830-2000.07.21-15.13.56--lyris.aprsspec#tapr.org@lists.tapr.org)>
Reply-To: "Thomas M. Schaefer" <ny4i@arrl.net>
From: "Thomas M. Schaefer" <toms@inconnect.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <arpp@onelist.com>
References: <Pine.GSO.4.05L.10007211321430.23187-1000000@arctic>
<LYR11918-97828-2000.07.21-14.46.21--toms#inconnect.com@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
Date: Fri, 21 Jul 2000 14:10:07 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001701bff34f\$b0002a30\$6ec6ed89@SC017588>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

If we take the PIC example, then I agree we need to maximize everything. That discussion is the same as MIC-E. It is a smaller compressed protocol that humans cannot understand, but the computers do. The only issue there is that I need a program that rapidly scans some area on a band (like 14.070) and gets data. The PIC would then just beacon. The problem of course is that I may not be listening in a certain area when you decide to beacon. Beaconsing twice could help this problem.

If you look at the speed of the algorithms, it should be quite fast to jump to the next signal on the band, see if it has any POSIT qualities, the jump to the next one. Perhaps, if the POSIT was aprs aprs aprs aprs de ny4i|<posit info>|. The receiver would have a better chance to find the preamble and stop.

If we want, this can be taken off to the arpp list one onelist.

Tom

----- Original Message -----

From: "Jeff King" <jeff@aerodata.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tappr.org>;
<aprsspec@lists.tappr.org>

Sent: Friday, July 21, 2000 1:42 PM

Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31

>

>

> Bob Bruninga wrote:

>

> > I am approaching a merging of APRS display technology from the perspective

> > of the existing PSK31 user base.

>

> Which is fine. But I was approaching it from the perspective of the APRS

> user base..... tracking assets. I have little interest in HF chit chatting

but

> if one can bootstrap off existing technology to enhance amateur AVL,
> which is my interest, then I think we should.
>
> > Look at any PSK31 QSO. They already use
> > GRID SQUARES. SO parsing and displaying that in APRS is a natural, and
> > can be done NOW and requires NO CHANGE IN existing operator technique.
> > You do it on receipt... THus you can begin plotting people NOW.
>
> Why can't we do both then? I'm interested in tracking assets, not peoples
houses.
> As such, I need to target platforms that will support this. A laptop in a
vehicle
> is not practical in all applications. However, a PIC processor is. And
> there already is open source PSK31 code out for the PIC. Sure, I could
send
> grid squares with the PIC, but gezz, how big would the look-up table be?
> I'd have to relate lat/long to every grid square. Why not just make life
> easier for everyone and just send lat/lon as that's what the GPS gives me?
>
> > Your unique selection of varicode characters can save 19% over a "grid
> > square" but I bet you will never convince anyone to use it. And it must
> > be implemented by all SENDERS before it has any value. Good luck...
>
> Actually, I was trying to convince you to look at the big picture here
since
> we have a relatively clean slate. I'm not saying not to use grid squares,
I
> was suggesting a alternate method that allowed the use of a GPS to track
> assets using a minimal processor. As a side benefit, it could be more
> compact then grid squares, easier to parse and more precise.
>
> Bob, I don't understand your resistance here.... you have what, four
> or five different ways to say the same thing on AX.25 aprs?!? I was
> throwing some ideas out here and thought I could get some dialog on
> the issue... so far I've gotten one guy arguing the merits of RTTY over
> PSK31 and now you shooting the idea down before it even gets out the
> gate. I think what I had was a very good way to use PSK31 to track
> assets..... yes I should code something up, but that shouldn't curtail
> intelligent conversation on the subject.
>
> > You are trying to optimize around "computer friendly". I am trying to
> > optimize around "user friendly" and taking advantage of existing use...
>
> Yes, guilty on all counts.. I don't care at all about existing use....
I'll use the
> internet to chat with someone sitting at their house. What I was
interested

> in was bootstrapping a existing technology into tracking mobile assets.
Seemed
> like a good fit to me.
>
> > Looks good, but without understanding how varicode works its far to
verbose.
> >
> > I understand how varicode works. I also understand how operators work
and
> > how they are already using gridsquares and they could care less about
> > changing just so us APRS people can plot them...
>
> The application of PSK31 Thomas suggested and I expanded upon does not yet
> exist. So the existing "user base" is irrelevant. Its just a modulation
method Bob,
> that's all. I could (almost) care less about the existing user base as any
tracking
> operations would not be on the same frequency as the existing user base.
>
> > > Now, transcribing this to varicode... 117 bits ... or.. 4.8 seconds to
> > > send a very ambiguous posit that is not very computer friendly.
> >
> > Not ambiguous at all when you consider that PSK31 is being used on HF,
> > Internationally. The Grid plots the guy to within less than 2 miles in
> > most areas of the world and is well close enough for an HF DX contact in
> > my thinking...
>
> If there is no APRS coverage in a particular area, AND I can send
locations
> to within 10's of feet, why not do it? I'm not going to jump on the
emergency
> bandwagon, but in some terrain's a grid square would be close to useless
in
> locating someone.
>
> Again, I think the basic misunderstanding here is you are interested in
tracking
> houses (which don't move) and I am interested in tracking assets (which
do).
> Why close your mind at the beginning of the game? I'm not saying what I
suggested
> was the way to go, but just because you don't see things that way doesn't
mean
> they can't be used that way. Don't tell me about how the users won't
accept it...
> tell me why it won't work or why you will not support it within the
context of
> your role in APRS.

>

> > With its VERY

> > precious bandwidth, it needs to be MAXIMALLY *user friendly*. With the

> > computer power we have today, we should make the computers work for US,

> > not make us REDEFINE HAM radio QSOs so the "computer" is happy...

>

> PSK31 is a mode. It has nothing to do with a QSO. Yes, it was optimized for

> QSO's and frankly, posits would be better served by tossing varicode, yet

> I am aware of the value of bootstrapping.

>

> > > Now, taking this a step further...: wb4apr-C\$Vh@<LF>

> > > ...ranscribing this to varicode we get a 25% savings in air time.

> >

> > No, you get another 0.3 seconds saved in a 1 minute QSO... Savings?

>

> The example I gave where ID/posit frames. Self supporting. Nothing to do

> with QSO's. Savings as posted.

>

> Again, you are putting your views in what APRS should be into this discussion, which

> is coloring your thinking. It appears to me your goal is to "sell" APRS to the existing

> PSK31 user base. This is fine, but it is a separate discussion. If you go back to

> the original posting that started this thread, you'll see the poster clearly wanted to

> graft PSK31 to APRS, not graft APRS to the PSK31 user base. As such, my

> comments about air time savings are entirely relevant and correct. (although it

> appears now he strangely agrees with you.... not matter, doesn't change my thoughts)

>

> > Ah, BUT... DISADVANTAGES:

> >

> > 1. No one will use it.

>

> Yes, indeed, especially with the overwhelming support I am seeing from you.

>

> > It is very easy to write a parser that can recognize a GRID SQUARE just

> > about anywhere in free form TEXT. APRSdos, WinAPRS and APRS+SA and maybe

> > others already have such algorithms..

>

> OK, then lets get back on focus in your line of thought. I am willing to roll over and play

> dead if you help me here.

>
> I've been looking at PSK31 for use in trackers. Even posted some mind
storms on it
> back in January on the PICSIG. A fellow has written some PIC source with
CCS C
> compiler to do PSK31 and it is freely available. Its actually everything
all rolled into
> one. I've gone through the source, and it looks like I can do what I want.
>
> Yet you say its very easy to write these parsers for grid squares, or in
the case of a tracker,
> the lookup table to convert a precise lat/lon to a fairly imprecise grid
square. Yet you are
> laboring under the false assumption that a PIC is a full blown PC. Its
not. It only has
> up to 368 bytes of RAM and often less then 4K of memory. As such, the
direct path
> is often the best path to take. In this case, directly sending lat/lon
instead of having
> a large lookup table with grid squares. Yes, pick and chose your varicode,
but still way
> smaller then a massive lookup tree.
>
> So... suggest a method to do these grid square lookups then in these
constraints... maybe you
> know something I don't about putting 300lbs of groceries in a 5lb bag.
>
> And if anyone is interested in this project, I can try to help. I'm busy
now myself with
> another AVL project, but I'd like to help anyone I can here. I've talked
with the
> author of the PIC PSK31 transmitter, and he was very supportive of anyone
grafting
> APRS support onto it. See http://www.ussc.com/~turner/psk_transmitter.html
> It is written in CCS PCM, and I can help anyone with this if need be (I've
written
> alot of PIC code myself on CCS, and even a few little things for the TAPR
project).
>
> So however we do it.... grid squares or real lat/lons, we are alot closer
to a PIC
> based PSK31 tracker then we think. Most of the work is already done. Lets
not
> throw the baby out with the bath water in our passion. Worst case, we can
just
> start with a inefficient, but existing APRS protocol and work down from
there, but
> IMHO, grid squares/lookup tables are not practical in most mobile

trackers.

>

> Regards,

>

> Jeff

>

>

>

> ---

> You are currently subscribed to aprsspec as: toms@inconnect.com

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jul 22 10:12:16 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA03526

for <lyris.aprsspec@tappr.org>; Sat, 22 Jul 2000 10:12:14 -0500 (CDT)

Message-Id: <LYR11589-97903-2000.07.22-10.17.00--

lyris.aprsspec#tappr.org@lists.tappr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: We getting there?

In-reply-to: Your message of "Wed, 12 Jul 2000 06:47:48 PDT."

<LYR11592-96108-2000.07.12-08.53.15--n8ur#tappr.org@lists.tappr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Date: Sat, 22 Jul 2000 11:11:44 -0300

From: John Ackermann <jra@febo.com>

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <200007221511.LAA08351@meow.febo.com>

Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

> APRS Spec 101m - May 1st, 2000

>

> Not meaning to nag, Ian, but I'm curious. How's it coming along?

> 73, Cap KE6AFE
> --

Ian's final draft has been in the hands of the group for a while now, and we're scheduling to close the review and have a final vote by the end of July. With luck, the final release will follow very shortly after that (Ian will just need to make whatever final tweaks there are and change the title to final form).

73,

John N8UR
jra@febo.com

PS -- Sorry for not responding to this sooner; I, like some of the WG group members, have been on vacation and away from email for the last couple of weeks.

--
John Ackermann N8UR
Dayton, Ohio, USA
jra@febo.com -- <http://www.febo.com>

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.3a

```
mQBtAzgI9hgAAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI
Fph4/RqL9vVEItWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHWARQXjC1I8cFZjY
TSe16ffq0/ba1ukLnQAFebQlSm9obiBSLiBBY2t1cm1hbm4gTjhVUiA8anJhQGZl
Ym8uY29tPokAdQMFEDgI9hjq0/ba1ukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw
+W5Z6Tu4UI654t9diGdCcIEPj0G1qUvwH2Xop0Yj9QGoM4NnHIw6qUSN5VH7hHKA
bGnpuTxinuW/gKaI3bt2MC8QZZq0gy2de269071E2A==
=UHWl
```

-----END PGP PUBLIC KEY BLOCK-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jul 23 16:47:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02010
for <lyris.aprsspec@tapr.org>; Sun, 23 Jul 2000 16:47:29 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 23 Jul 2000 17:46:33 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
In-Reply-To: <LYR11586-97828-2000.07.21-14.46.21--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-98046-2000.07.23-16.52.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10007231744100.16300-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I agree, that it would be ideal to use PSK31 techniques for much better HF success. But it cannot operate as a dumb tracker, since the tuning has to be within a fraction of a HZ. Thus the sender either has to match an IGATE beacon or the IGate must auto-tune the tracker. Both of these take time... and I doubt are practical.

Thus, you are back to square one, needing operators at both ends, and thus back to a human QSO, etc.

If you can make it automatic, then I am all for it!

Bob

On Fri, 21 Jul 2000,

Jeff King wrote:

>

>

> Bob Bruninga wrote:

>

> > I am approaching a merging of APRS display technology from the perspective
> > of the existing PSK31 user base.

>

> Which is fine. But I was approaching it from the perspective of the APRS
> user base..... tracking assets. I have little interest in HF chit chatting but
> if one can bootstrap off existing technology to enhance amateur AVL,
> which is my interest, then I think we should.

>
> > Look at any PSK31 QSO. They already use
> > GRID SQUARES. SO parsing and displaying that in APRS is a natural, and
> > can be done NOW and requires NO CHANGE IN existing operator technique.
> > You do it on receipt... THus you can begin plotting people NOW.
>
> Why can't we do both then? I'm interested in tracking assets, not peoples
houses.
> As such, I need to target platforms that will support this. A laptop in a
vehicle
> is not practical in all applications. However, a PIC processor is. And
> there already is open source PSK31 code out for the PIC. Sure, I could send
> grid squares with the PIC, but gezz, how big would the look-up table be?
> I'd have to relate lat/long to every grid square. Why not just make life
> easier for everyone and just send lat/lon as that's what the GPS gives me?
>
> > Your unique selection of varicode characters can save 19% over a "grid
> > square" but I bet you will never convince anyone to use it. And it must
> > be implemented by all SENDERS before it has any value. Good luck...
>
> Actually, I was trying to convince you to look at the big picture here since
> we have a relatively clean slate. I'm not saying not to use grid squares, I
> was suggesting a alternate method that allowed the use of a GPS to track
> assets using a minimal processor. As a side benefit, it could be more
> compact then grid squares, easier to parse and more precise.
>
> Bob, I don't understand your resistance here.... you have what, four
> or five different ways to say the same thing on AX.25 aprs?!? I was
> throwing some ideas out here and thought I could get some dialog on
> the issue... so far I've gotten one guy arguing the merits of RTTY over
> PSK31 and now you shooting the idea down before it even gets out the
> gate. I think what I had was a very good way to use PSK31 to track
> assets..... yes I should code something up, but that shouldn't curtail
> intelligent conversation on the subject.
>
> > You are trying to optimize around "computer friendly". I am trying to
> > optimize around "user friendly" and taking advantage of existing use...
>
> Yes, guilty on all counts.. I don't care at all about existing use.... I'll use
the
> internet to chat with someone sitting at their house. What I was interested
> in was bootstrapping a existing technology into tracking mobile assets. Seemed
> like a good fit to me.
>
> > > Looks good, but without understanding how varicode works its far to verbose.
> >
> > I understand how varicode works. I also understand how operators work and
> > how they are already using gridsquares and they could care less about

> > changing just so us APRS people can plot them...
>
> The application of PSK31 Thomas suggested and I expanded upon does not yet
> exist. So the existing "user base" is irrelevant. Its just a modulation method
Bob,
> that's all. I could (almost) care less about the existing user base as any
tracking
> operations would not be on the same frequency as the existing user base.
>
> > > Now, transcribing this to varicode... 117 bits ... or.. 4.8 seconds to
> > > send a very ambiguous posit that is not very computer friendly.
> >
> > Not ambiguous at all when you consider that PSK31 is being used on HF,
> > Internationally. The Grid plots the guy to within less than 2 miles in
> > most areas of the world and is well close enough for an HF DX contact in
> > my thinking...
>
> If there is no APRS coverage in a particular area, AND I can send locations
> to within 10's of feet, why not do it? I'm not going to jump on the emergency
> bandwagon, but in some terrain's a grid square would be close to useless in
> locating someone.
>
> Again, I think the basic misunderstanding here is you are interested in tracking
> houses (which don't move) and I am interested in tracking assets (which do).
> Why close your mind at the beginning of the game? I'm not saying what I
suggested
> was the way to go, but just because you don't see things that way doesn't mean
> they can't be used that way. Don't tell me about how the users won't accept
it...
> tell me why it won't work or why you will not support it within the context of
> your role in APRS.
>
> > With its VERY
> > precious bandwidth, it needs to be MAXIMALLY *user friendly*. With the
> > computer power we have today, we should make the computers work for US,
> > not make us REDEFINE HAM radio QSOs so the "computer" is happy...
>
> PSK31 is a mode. It has nothing to do with a QSO. Yes, it was optimized for
> QSO's and frankly, posits would be better served by tossing varicode, yet
> I am aware of the value of bootstrapping.
>
> > > Now, taking this a step further...: wb4apr-C\$Vh@<LF>
> > > ...ranscribing this to varicode we get a 25% savings in air time.
> >
> > No, you get another 0.3 seconds saved in a 1 minute QSO... Savings?
>
> The example I gave where ID/posit frames. Self supporting. Nothing to do
> with QSO's. Savings as posted.

>
> Again, you are putting your views in what APRS should be into this discussion, which
> is coloring your thinking. It appears to me your goal is to "sell" APRS to the existing
> PSK31 user base. This is fine, but it is a separate discussion. If you go back to
> the original posting that started this thread, you'll see the poster clearly wanted to
> graft PSK31 to APRS, not graft APRS to the PSK31 user base. As such, my
> comments about air time savings are entirely relevant and correct. (although it
> appears now he strangely agrees with you.... not matter, doesn't change my thoughts)
>
> > Ah, BUT... DISADVANTAGES:
> >
> > 1. No one will use it.
>
> Yes, indeed, especially with the overwhelming support I am seeing from you.
>
> > It is very easy to write a parser that can recognize a GRID SQUARE just
> > about anywhere in free form TEXT. APRSdos, WinAPRS and APRS+SA and maybe
> > others already have such algorithms..
>
> OK, then lets get back on focus in your line of thought. I am willing to roll over and play
> dead if you help me here.
>
> I've been looking at PSK31 for use in trackers. Even posted some mind storms on it
> back in January on the PICSIG. A fellow has written some PIC source with CCS C
> compiler to do PSK31 and it is freely available. Its actually everything all rolled into
> one. I've gone through the source, and it looks like I can do what I want.
>
> Yet you say its very easy to write these parsers for grid squares, or in the case of a tracker,
> the lookup table to convert a precise lat/lon to a fairly imprecise grid square. Yet you are
> laboring under the false assumption that a PIC is a full blown PC. Its not. It only has
> up to 368 bytes of RAM and often less then 4K of memory. As such, the direct path
> is often the best path to take. In this case, directly sending lat/lon instead of having
> a large lookup table with grid squares. Yes, pick and chose your varicode, but still way
> smaller then a massive lookup tree.

>
> So... suggest a method to do these grid square lookups then in these
constraints... maybe you
> know something I don't about putting 300lbs of groceries in a 5lb bag.
>
> And if anyone is interested in this project, I can try to help. I'm busy now
myself with
> another AVL project, but I'd like to help anyone I can here. I've talked with
the
> author of the PIC PSK31 transmitter, and he was very supportive of anyone
grafting
> APRS support onto it. See http://www.ussc.com/~turner/psk_transmitter.html
> It is written in CCS PCM, and I can help anyone with this if need be (I've
written
> alot of PIC code myself on CCS, and even a few little things for the TAPR
project).
>
> So however we do it.... grid squares or real lat/lons, we are alot closer to a
PIC
> based PSK31 tracker then we think. Most of the work is already done. Lets not
> throw the baby out with the bath water in our passion. Worst case, we can just
> start with a inefficient, but existing APRS protocol and work down from there,
but
> IMHO, grid squares/lookup tables are not practical in most mobile trackers.
>
> Regards,
>
> Jeff
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jul 24 22:13:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA26891
for <lyris.aprsspec@tapr.org>; Mon, 24 Jul 2000 22:13:39 -0500 (CDT)
Message-ID: <LYR11589-98322-2000.07.24-22.18.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Dale E. Reed" <w8abz@mindspring.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: APRS & PSK31
Date: Tue, 25 Jul 2000 03:14:10 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001101bff5de\$08042f20\$1f59fea9@hobby-room>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm trying to remember WAAAAYYY back to the beginning of this thread, but I believe the whole thing started with a "suppose" like: "Suppose you had a program that decoded all the PSK31 conversations in the passband of your receiver...." It would look at the entire 2.5 - 3.0 kHz swath of incoming stuff, like the frequency waterfall in DigiPan, but decode ALL the incoming data streams, monitor them for stuff like "DE W8ABZ@EN91fm" and plot them on your map.

I don't know DSP, so I don't know if it's possible (with a sound card at 44 kHz sampling with a big honkin' Pentium Ninety-Twelve at 10.5 GHz) to decode ALL the PSK31 data in a 3 kHz passband, but I think that would be a cool program. Might also program it with user-enterable rules, like to look for rare DX calls, stations not yet contacted on the current band for a contest, the word "emergency" or "mayday", or whatever else. (Bet the FCC could use it, too, if they're not already... ;-) Anyway, the point of this is that the original premise was that you wouldn't need exact tuning because you'd be decoding everything in the passband.

At least, I think that was the deal. Could be wrong. I'm the same idiot who thought I should use the output of the sound card with a stereo gen chip to FM the clock on a 100 MHz Pentium so you could broadcast to any Walkman or other stereo receiver in your house. Silly me.

Regards,

Dale

DE W8ABZ@EN91fm/-:w8abz@mindspring.com <----- plot this!

>Subject: Re: [aprssig] RE: APRS & PSK31

>From: Bob Bruninga <bruninga@nadn.navy.mil>

>Date: Sun, 23 Jul 2000 17:46:33 -0400 (EDT)

>X-Message-Number: 1

>

>I agree, that it would be ideal to use PSK31 techniques for much better HF
>success. But it cannot operate as a dumb tracker, since the tuning has to
>be within a fraction of a HZ. THus the sender either has to match an
>IGATE beacon or the IGate must auto-tune the tracker. Both of these take
>time... and I doubt are practical.

>

>Thus, you are back to square one, needing operators at both ends, and thus
>back to a human QSO, etc.

>

>If you can make it automatic, then I am all for it!

>Bob

> On Fri, 21 Jul 2000,

>Jeff King wrote:

>>

>>>etc.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapir.org Wed Aug 2 10:52:22 2000
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id KAA25704
for <lyris.aprsspec@tapir.org>; Wed, 2 Aug 2000 10:52:20 -0500 (CDT)
Message-ID: <LYR11589-100036-2000.08.02-10.57.30--
lyris.aprsspec@tapir.org@lists.tapir.org>
Date: Wed, 2 Aug 2000 16:52:22 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] New Mic-E Test Suite available
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <hWQ+SuA20Ei5EwJ\$@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

I have just produced a new test suite for Mic-E software. It consists of
around 200 carefully crafted packets, designed to stretch the Mic-E
software in all directions.

I am not posting it to my website just yet, but if you would like a copy
(about 30KB) just drop me a mail: g3nrw@tapir.org

73
Ian, G3NRW
Technical Editor, APRS Protocol Specification

--
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@tapir.org |
| |
| APRS PROTOCOL SPEC: http://www.tapir.org/tapir/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.tapir.org/~g3nrw |
| Mic-Encoder Software: http://www.tapir.org/~g3nrw |
+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 2 11:46:32 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA07661
for <lyris.aprsspec@tappr.org>; Wed, 2 Aug 2000 11:46:25 -0500 (CDT)
Message-Id: <LYR11589-100042-2000.08.02-11.51.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: New Mic-E Test Suite available
Date: Wed, 2 Aug 2000 12:45:58 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="Emler_-1246598850"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200008021645.JAA10812@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

--Emler_-1246598850
Content-Type: text/plain; charset="US-ASCII"

On 8/2/00 11:52 AM Ian Wade (Ian.Wade@care4free.net) wrote:

>I have just produced a new test suite for Mic-E software. It consists of
>around 200 carefully crafted packets, designed to stretch the Mic-E
>software in all directions.

>

Here's the output of APRServe's parser if anyone cares to write a program
to reconcile Ian's report format with the converted packets, or perhaps
Ian would like to run this through his program and diff the result...

Too painful to go through a couple hundred lines by hand...

Steve K4HG
--Emler_-1246598850
Content-Type: text/plain; name="out.txt";
x-mac-type="54455854";
x-mac-creator="43574945"
Content-transfer-encoding: x-uuencode
Content-Disposition: Attachment; filename="out.txt"

begin 644 out.txt

M(R!-24-%5\$535"Y\$050@(%1E<W1S(\$UI8RU%(&1E8V]D:6YG+B @5F5R(##\$N
M," @(\$@075G(##(P,## -(R!.;VXM<')I;G1I;F<@8VAA<F%C=&5R<R!A<F4@

M<VAO=VX@:6X@97%U:79A;&5N=" P>"!F;W)M(&EN('1H92!-:6,M12!C;VUM
M96YT(&9I96QD#2,@1\$535\$E.051)3TX@041\$4D534R!415-44R H3&%T:71U
M9&4L(\$UE<W-A9V5S+"!+.U,012]7+"!,,;VYG(\$]F9G-E="D-(R K*RLK*RLK
M*RLK*RLK*R!' ;V]D(&QA=&ET=61E('9A;'5E<PU',TY25RH^05!%,3 P.D P
M,C\$V,S-Z,# P,"XP,%,O,# P,# N,#!%/C P-"P-# 013Y34E8033=%3452
M1T5.0UDA(" @(" @(" @P>#%C*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,#\$R
M,RXT-5,O,#(P,C\$N,C)/%C R-2\R,S(013Y34E8033=%34521T5.0UDA#4<S
M3E)7*CY!4\$4Q,# Z0# R,38S,WHV-S4Y+C P4R\P,C R,2XR,D4^,#(U+S(S
M,B])%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P
M,3(N,S1.+S\$R,#(Q+C(R5SXP,C40,C,R+T4^4U)6+TTP3V9F(\$1U='D@(' U'
M,TY25RH^05!%,3 P.D P,C\$V,S-Z-38U-BXY.4X0,3(P,C\$N,C)7/C R-2\R
M,S(013Y34E8033!/9F8@1'5T>2 @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ
M,C,P+C\$R4R\P,C R,2XR,D4^,#(U+S(S,B])%/E-25B]-,\$]F9B!\$=71Y(" -
M1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C0U-C,N-#53+S R,#(Q+C(R13XP,C40
M,C,R+T4^4U)6+TTP3V9F(\$1U='D@(' U',TY25RH^05!%,3 P.D P,C\$V,S-Z
M-S@V-"XU-E,O,#(P,C\$N,C)/%C R-2\R,S(013Y34E8033!/9F8@1'5T>2 @
M#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHY,#\$R+CDY4R\P,C R,2XR,D4^,#(U
M+S(S,B])%/E-25B]-,U)E='5R;FEN9R -1S-.4E<J/D%013\$P,#I ,#(Q-C,S
M>C P,# N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTW14U%4D=%3D-9
M(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,5,O,#(P,C\$N,C)/%C R
M-2\R,S(013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHY,# P+C P4R\P,C R,2XR,D4^,#(U+S(S,B])%/E-25B]--T5-15)'14Y#
M62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C@Y-3DN.3E3+S R,#(Q+C(R13XP
M,C40,C,R+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V
M,S-Z,3 P,# N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTS4F5T=7)N
M:6YG(' U',TY25RH^05!%,3 P.D P,C\$V,S-Z,3 P-CDN.3E3+S R,#(Q+C(R
M13XP,C40,C,R+T4^4U)6+TTP3V9F(\$1U='D@(' U',TY25RH^05!%,3 P.D P
M,C\$V,S-Z,#\$R,RXU,E,O,#(P,C\$N,C)7/C R-2\R,S(013Y34E8033=%3452
M1T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,3(S+C\$Q,E,O,3(P,C\$N
M,C)7/C R-2\R,S(013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z
M0# R,38S,WHP,3(S+C\$P-5,O,3(P,C\$N,C)/%C R-2\R,S(013Y34E8033=%
M34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,3,P+C\$Q,\$X0,3(P
M,C\$N,C)7/C R-2\R,S(013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q
M,# Z0# R,38S,WHP,3,R+C P3B\P,C R,2XR,D4^,#(U+S(S,B])%/E-25B]-
M-T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C Q,S(N,3 P3B\Q
M,C R,2XR,D4^,#(U+S(S,B])%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%0
M13\$P,#I ,#(Q-C,S>C Q,3,P+C\$S,\$X0,3(P,C\$N,C)7/C R-2\R,S(013Y3
M4E8033904DE/4DE462 @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ,C\$Q,"XQ
M,E,O,#(P,C\$N,C)/%C R-2\R,S(013Y34E8033!/9F8@1'5T>2 @#4<S3E)7
M*CY!4\$4Q,# Z0# R,38S,WHT,#\$Q,2XY.5,O,#(P,C\$N,C)/%C R-2\R,S(O
M13Y34E8033)%;B!2;W5T92 @#2,@*RLK*RLK*RLK*RLK*RL@0F%D(\$QA=&ET
M=61E('9A;'5E<PU',TY25RH^05!%,3 P.D P,C\$V,S-Z.3 P,"XP,5,O,#(P
M,C\$N,C)/%C R-2\R,S(013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q
M,# Z0# R,38S,WHV-S8P+C P4R\P,C R,2XR,D4^,#(U+S(S,B])%/E-25B]-
M-T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C4V-S@N.3E.+S\$R
M,#(Q+C(R5SXP,C40,C,R+T4^4U)6+TTP3V9F(\$1U='D@(' U',TY25RH^05!%
M,3 P.D P,C\$V,S-Z,3 P,3(N.3E3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6
M+TTS4F5T=7)N:6YG(" @(" @(" @(" @(" @(" -1S-.4E<J/D%013\$P,#I

M,#(Q-C,S>C(P,# N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTU4W!E
M8VEA;" @ (U',TY25RH^05!%,3 P.D P,C\$V,S-Z,3 Q,# N,#!3+S R,#(Q
M+C(R13XP,C40,C,R+T4^4U)6+TTS4F5T=7)N:6YG(U',TY25RH^05!%,3 P
M.D P,C\$V,S-Z,C\$P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y34E803353
M<&5C:6%L(" @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ,3\$P,"XP,%,0,#(P
M,C\$N,C)/C R-2\R,S(013Y34E8033-2971U<FYI;F<@#4<S3E)7*CY!4\$4Q
M,# Z0# R,38S,WHQ,S P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y34E80
M33-2971U<FYI;F<@#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ-# P,"XP,%,0
M,#(P,C\$N,C)/C R-2\R,S(013Y34E8033-2971U<FYI;F<@#4<S3E)7*CY!
M4\$4Q,# Z0# R,38S,WHQ-3 P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y3
M4E8033-2971U<FYI;F<@#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# Q+C P
M3B\P,C R,2XR,D4^,#(U+S(S,B]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J
M/D%013\$P,#I ,#(Q-C,S>C P,# N,C!3+S\$R,#(Q+C(R13XP,C40,C,R+T4^
M4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP
M.5,0,#(P,C\$N,C)7/C R-2\R,S(013Y34E8033=%34521T5.0UDA#4<S3E)7
M*CY!4\$4Q,# Z0# R,38S,WHQ,3 P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(0
M13Y34E8033-2971U<FYI;F<@#2,@*RLK*RLK*RLK*RLK*RL@1V]09"!M97-S
M86=E(&-09&5S#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,C R
M,2XR,D4^,#(U+S(S,B]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P
M,#I ,#(Q-C,S>C P,# N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTV
M4%))3U))5%D@ (U',TY25RH^05!%,3 P.D P,C\$V,S-Z,#\$R,"XP,%,0,#(P
M,C\$N,C)/C R-2\R,S(013Y34E803353<&5C:6%L(" @#4<S3E)7*CY!4\$4Q
M,# Z0# R,38S,WHP,3(P+C P4R\P,C R,2XR,D4^,#(U+S(S,B]/E-25B]-
M-\$-0;6UI='1E9" -1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C(P,S N,#!3+S R
M,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTS4F5T=7)N:6YG(U',TY25RH^05!%
M,3 P.D P,C\$V,S-Z,S T,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y34E80
M33);B!2;W5T92 @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHU-C4P+C P4R\P
M,C R,2XR,D4^,#(U+S(S,B]/E-25B]-,4EN(%-E<G9I8V4-1S-.4E<J/D%0
M13\$P,#I ,#(Q-C,S>C@Y,3 P+C P4R\P,C R,2XR,D4^,#(U+S(S,B]/E-2
M5B]-,\$]F9B!\$=71Y(" -1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,3 N,#!3
M+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTV4%))3U))5%D@ (U',TY25RH^
M05!%,3 P.D P,C\$V,S-Z,#(P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y3
M4E803353<&5C:6%L(" @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,S0P+C P
M4R\P,C R,2XR,D4^,#(U+S(S,B]/E-25B]--\$-0;6UI='1E9" -1S-.4E<J
M/D%013\$P,#I ,#(Q-C,S>C4P,# N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^
M4U)6+TTS4F5T=7)N:6YG(U',TY25RH^05!%,3 P.D P,C\$V,S-Z-C V,"XP
M,%,0,#(P,C\$N,C)/C R-2\R,S(013Y34E8033);B!2;W5T92 @#4<S3E)7
M*CY!4\$4Q,# Z0# R,38S,WHX.3 P+C P4R\P,C R,2XR,D4^,#(U+S(S,B]/
M/E-25B]-,4EN(%-E<G9I8V4-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C\$P,C,P
M+C P4R\P,C R,2XR,D4^,#(U+S(S,B]/E-25B]-,\$]F9B!\$=71Y(" -(R K
M*RLK*RLK*RLK*RLK*R!"860@;65S<V%G92!C;V1E<PU',TY25RH^05!%,3 P
M.D P,C\$V,S-Z,3(P,"XP,%,0,#(P,C\$N,C)/C R-2\R,S(013Y34E8033!/M
9F8@1'5T>2 @#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ,# P+C P4R\P,C R
M,2XR,D4^,#(U+S(S,B]/E-25B]-,D5N(%)0=71E(" -1S-.4E<J/D%013\$P
M,#I ,#(Q-C,S>C Q,3 N,#!3+S R,#(Q+C(R13XP,C40,C,R+T4^4U)6+TTP
M3V9F(\$1U='D@ (TC("LK*RLK*RLK*RLK*RLK(\$Q/3D=)5%5\$10TC("LK*RLK
M*RLK*RLK*RLK(\$=0;V0@;&]N9VET=61E(&1E9W)E97,@*&0K,C@@8GET92D-
M1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#00

M, #0P+T4^4U)6+TTW14U%4D=%3D-9(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z
M, # P, "XP, %, O, # Q, # N, #1%/C P-" \P-# 013Y34E8033=%34521T5.0UDA
M#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP, # P+C P4R\ P, # (P, "XP-\$4^, # T
M+S T, "]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P, #I , # (Q-C, S
M>C P, # N, #!3+S P. # P+C T13XP, #00, #0P+T4^4U)6+TTW14U%4D=%3D-9
M(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z, # P, "XP, %, O, # Y, # N, #1%/C P
M-" \P-# 013Y34E8033=%34521T5.0UDA(" @(" @(" @P>#F*0U', TY25RH^
M05!%, 3 P.D P, C\$V, S-Z, # P, "XP, %, O, # \$P, # N, #1%/C P-" \P-# 013Y3
M4E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP, # P+C P
M4R\ P, 3\$P, "XP-\$4^, # T+S T, "]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J
M/D%013\$P, #I , # (Q-C, S>C P, # N, #!3+S Y-S P+C T13XP, #00, #0P+T4^
M4U)6+TTW14U%4D=%3D-9(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z, # P, "XP
M, %, O, #DX, # N, #1%/C P-" \P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7
M*CY!4\$4Q, # Z0# R, 38S, WHP, # P+C P4R\ P.3DP, "XP-\$4^, # T+S T, "]/
M/E-25B]--T5-15)'14Y#62\$@(" @(" @*#X-V8I#4<S3E)7*CY!4\$4Q, # Z
M0# R, 38S, WHP, # P+C P4R\ Q, # P, "XP-\$4^, # T+S T, "]/E-25B]--T5-
M15)'14Y#62\$-1S-.4E<J/D%013\$P, #I , # (Q-C, S>C P, # N, #!3+S\$P, 3 P
M+C T13XP, #00, #0P+T4^4U)6+TTW14U%4D=%3D-9(0U', TY25RH^05!%, 3 P
M.D P, C\$V, S-Z, # P, "XP, %, O, 3 X, # N, #1%/C P-" \P-# 013Y34E8033=%
M34521T5.0UDA#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP, # P+C P4R\ Q, #DP
M, "XP-\$4^, # T+S T, "]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P
M, #I , # (Q-C, S>C P, # N, #!3+S\$Q, # P+C T13XP, #00, #0P+T4^4U)6+TTW
M14U%4D=%3D-9(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z, # P, "XP, %, O, 3\$Q
M, # N, #1%/C P-" \P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q
M, # Z0# R, 38S, WHP, # P+C P4R\ Q-S@P, "XP-\$4^, # T+S T, "]/E-25B]-
M-T5-15)'14Y#62\$-1S-.4E<J/D%013\$P, #I , # (Q-C, S>C P, # N, #!3+S\$W
M.3 P+C T13XP, #00, #0P+T4^4U)6+TTW14U%4D=%3D-9(0TC("LK*RLK*RLK
M*RLK*RLK(\$)A9"!L;VYG:71U9&4@9&5G<F5E<R H9"LR."!B>71E*0U', TY2
M5RH^05!%, 3 P.D P, C\$V, S-Z, # P, "XP, %, O, 3 Y, # N, #1%/C P-" \P-# 0
M13Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP, # P
M+C P4R\ Q, #0P, "XP-\$4^, # T+S T, "]/E-25B]--T5-15)'14Y#62\$-1S-.
M4E<J/D%013\$P, #I , # (Q-C, S>C P, # N, #!3+S\$P, # P+C T13XP, #00, #0P
M+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @(" H, '@Q9"D-1S-.4E<J/D%013\$P
M, #I , # (Q-C, S>C P, # N, #!3+S\$P, S P+C T13XP, #00, #0P+T4^4U)6+TTW
M14U%4D=%3D-9(2 @(" @(" H, '@Q9BD-1S-.4E<J/D%013\$P, #I , # (Q-C, S
M>C P, # N, #!3+S W, S P+C T13XP, #00, #0P+T4^4U)6+TTW14U%4D=%3D-9
M(2 @(" @(" H, '@P, 2D-(R K*RLK*RLK*RLK*RLK*R!' ;V]D(&Q0;F=I='5D
M92!M:6YU=&5S("AM*S(X(&)Y=&4I#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP
M, # P+C P4R\ P, # P, "XP-\$4^, # T+S T, "]/E-25B]--T5-15)'14Y#62\$-
M1S-.4E<J/D%013\$P, #I , # (Q-C, S>C P, # N, #!3+S P, # Q+C T13XP, #00
M, #0P+T4^4U)6+TTW14U%4D=%3D-9(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z
M, # P, "XP, %, O, # P, #@N, #1%/C P-" \P-# 013Y34E8033=%34521T5.0UDA
M#4<S3E)7*CY!4\$4Q, # Z0# R, 38S, WHP, # P+C P4R\ P, # P.2XP-\$4^, # T
M+S T, "]/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P, #I , # (Q-C, S
M>C P, # N, #!3+S P, # \$P+C T13XP, #00, #0P+T4^4U)6+TTW14U%4D=%3D-9
M(0U', TY25RH^05!%, 3 P.D P, C\$V, S-Z, # P, "XP, %, O, # P, 3\$N, #1%/C P
M-" \P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q, # Z0# R, 38S
M, WHP, # P+C P4R\ P, # U."XP-\$4^, # T+S T, "]/E-25B]--T5-15)'14Y#

M62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,#4Y+C T13XP
M,#00,#0P+T4^4U)6+TTW14U%4D=%3D-9(0TC("LK*RLK*RLK*RLK*RLK(\$)A
M9"!L;VYG:71U9&4@;6EN=71E<R H;2LR."!B>71E*0U',TY25RH^05!%,3 P
M.D P,C\$V,S-Z,# P,"XP,%,O,# P,3 N,#1%/C P-"P-# 013Y34E8033=%
M34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P
M.2XP-\$4^,# T+S T,"]%/E-25B]--T5-15)'14Y#62\$-(R K*RLK*RLK*RLK
M*RLK*R!' ;V]D(&Q0;F=I='5D92!H=6YD<F5D=&AS("AH*S(X(&)Y=&4I#4<S
M3E)7*CY!4\$4Q,# Z0# R,38S,WHQ,# P+C P4R\P,# P,"XP,\$4^,# T+S T
M,"]%/E-25B]--T5-15)'14Y#62\$@(" @(" @*#!X,6,I#4<S3E)7*CY!4\$4Q
M,# Z0# R,38S,WHP,# P+C P4R\P,# P,"XP,44^,# T+S T,"]%/E-25B]-
M-T5-15)'14Y#62\$@(" @(" @*#!X,60I#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHP,# P+C P4R\P,# P,"XP,D4^,# T+S T,"]%/E-25B]--T5-15)'14Y#
M62\$@(" @(" @*#!X,64I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P
M4R\P,# P,"XP,T4^,# T+S T,"]%/E-25B]--T5-15)'14Y#62\$@(" @(" @
M*#!X,68I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P,"XP
M-\$4^,# T+S T,"]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I
M,#(Q-C,S>C P,# N,#!3+S P,# P+C U13XP,#00,#0P+T4^4U)6+TTW14U%
M4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N
M.3A%/C P-"P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z
M0# R,38S,WHP,# P+C P4R\P,# P,"XY.44^,# T+S T,"]%/E-25B]--T5-
M15)'14Y#62\$@(" @(" @*#!X-V8I#2,@*RLK*RLK*RLK*RLK*RL@0F%D(&Q0
M;F=I='5D92!H=6YD<F5D=&AS("AH*S(X(&)Y=&4I#4<S3E)7*CY!4\$4Q,# Z
M0# R,38S,WHQ,# P+C P4R\P,# P,"XM,44^,# T+S T,"]%/E-25B]--T5-
M15)'14Y#62\$@(" @(" @*#!X,6(I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ
M,# P+C P4R\P,# P,"XM,34V13XP,#00,#0P+T4^4U)6+TTW14U%4D=%3D-9
M(2 @(" @(" H,'@X,"D-(R K*RLK*RLK*RLK*RLK*R!34\$5%1 TC("LK*RLK
M*RLK*RLK*RLK(\$=0;V0@<W!E960@*&AU;F1R961S+W1E;G,I("A34"LR."!B
M>71E*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%
M/C P-"P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R
M,38S,WHP,# P+C P4R\P,# P,"XP-\$4^,# T+S P,"]%/E-25B]--T5-15)'
M14Y#62\$@(" @(" @*#!X,6,I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P
M+C P4R\P,# P,"XP-\$4^,# T+S Q,"]%/E-25B]--T5-15)'14Y#62\$-1S-.
M4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#00,#\$P
M+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @(" H,'@Q9"D-1S-.4E<J/D%013\$P
M,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#00,#(P+T4^4U)6+TTW
M14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P
M,# N,#1%/C P-"P-# 013Y34E8033=%34521T5.0UDA(" @(" @("P>#%E
M*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P
M-"P,S 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHP,# P+C P4R\P,# P,"XP-\$4^,# T+S S,"]%/E-25B]--T5-15)'14Y#
M62\$@(" @(" @*#!X,68I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P
M4R\P,# P,"XP-\$4^,# T+S\$X,"]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J
M/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#00,3@P+T4^
M4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP
M,%,O,# P,# N,#1%/C P-"Q.3 013Y34E8033=%34521T5.0UDA(" @(" @
M("P>#F*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N
M,#1%/C P-"Q.3 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z
M0# R,38S,WHP,# P+C P4R\P,# P,"XP-\$4^,# T+S(P,"]%/E-25B]--T5-

M15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P
M+C T13XP,#00,C\$P+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P
M.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-"W.# 013Y34E8033=%
M34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P
M,"XP-\$4^,# T+S<Y,"]%/E-25B]--T5-15)'14Y#62\$-(R K*RLK*RLK*RLK
M*RLK*R!"860@<W!E960@*&AU;F1R961S+W1E;G,I("A34"LR."!B>71E*0U'
M,TY25RH^05!%,3 P.D P,C\$V,S-Z,3 P,"XP,%,O,# P,# N,#1%/C P-"M
M,3 013Y34E8033=%34521T5.0UDA(" @(" @("P>#%B*0U',TY25RH^05!
M,3 P.D P,C\$V,S-Z,3 P,"XP,%,O,# P,# N,#1%/C P-"M,34V,"]%/E-2
M5B]--T5-15)'14Y#62\$@(" @(" @*#!X.# I#2,@*RLK*RLK*RLK*RLK*RL@
M1V]09"!S<&5E9" H=6YI=' ,I("A\$0RLR."!B>71E*0U',TY25RH^05!%,3 P
M.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-"P,# 013Y34E8033=%
M34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P
M,"XP-\$4^,# T+S P,"]%/E-25B]--T5-15)'14Y#62\$@(" @(" @*#!X,6,I
M#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P,"XP-\$4^,# T
M+S P,2]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S
M>C P,# N,#!3+S P,# P+C T13XP,#00,# Q+T4^4U)6+TTW14U%4D=%3D-9
M(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P
M-"P,#(013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHP,# P+C P4R\P,# P,"XP-\$4^,# T+S P,B]%/E-25B]--T5-15)'14Y#
M62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP
M,#00,# S+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V
M,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-"P,#,013Y34E8033=%34521T5.
M0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P,"XP-\$4^
M,# T+S P-"]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q
M-C,S>C P,# N,#!3+S P,# P+C T13XP,#00,# T+T4^4U)6+TTW14U%4D=%
M3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%
M/C P-"P,#4013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R
*,38S,WHP,# P+@
M,#!3+S P,# P+C T13XP,#00,# U+T4^4U)6+TTW14U%4D=%3D-9(0U',TY2
M5RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-"P,#80
M13Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P
M+C P4R\P,# P,"XP-\$4^,# T+S P-B]%/E-25B]--T5-15)'14Y#62\$-1S-.
M4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#00,# W
M+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P
M,"XP,%,O,# P,# N,#1%/C P-"P,#<013Y34E8033=%34521T5.0UDA#4<S
M3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4R\P,# P,"XP-\$4^,# T+S P
M."]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P
M,# N,#!3+S P,# P+C T13XP,#00,# X+T4^4U)6+TTW14U%4D=%3D-9(0U'
M,TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-"P
M,#D013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP
M,# P+C P4R\P,# P,"XP-\$4^,# T+S P.2]%/E-25B]--T5-15)'14Y#62\$-
M1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XS,#00
M,# Y+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V,S-Z
M,# P,"XP,%,O,# P,# N,#1%/C,P-"P,#D013Y34E8033=%34521T5.0UDA
M#2,@*RLK*RLK*RLK*RLK*RL@0F%D(' -P965D("AU;FET<RD@*\$1#*S(X(&)Y
M=&4I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHQ,# P+C P4R\P,# P,"XP-\$4^
M+3DV+S P,"]%/E-25B]--T5-15)'14Y#62\$@(" @(" @*#!X,6(I#4<S3E)7

M*CY!4\$4Q,# Z0# R,38S,WHQ,# P+C P4R\P,# P,"XP-\$4^~# T+S P.2]%
M/E-25B]--T5-15)'14Y#62\$-(R K*RLK*RLK*RLK*RLK*R!#3U524T4-(R K
M*RLK*RLK*RLK*RLK*R!' ;VJD(&-0=7)S92 H:'5N9')E9',I("A\$0RLR."!B
M>71E*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%
M/C P,"\P,# 013Y34E8033=%34521T5.0UDA(" @(" @(" @P>#%C*0U',TY2
M5RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P,"\P,# 0
M13Y34E8033=%34521T5.0UDA(" @(" @(" @P>#%C(" P>#%C*0U',TY25RH^
M05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C\$P,"\P,# 013Y3
M4E8033=%34521T5.0UDA(" @(" @(" @P>#%C*0U',TY25RH^05!%,3 P.D P
M,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C\$P,"\P,# 013Y34E8033=%3452
M1T5.0UDA(" @(" @(" @P>#%D(" P>#%C*0U',TY25RH^05!%,3 P.D P,C\$V
M,S-Z,# P,"XP,%,O,# P,# N,#1%/C(P,"\P,# 013Y34E8033=%34521T5.
M0UDA(" @(" @(" @P>#%C*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP
M,%,O,# P,# N,#1%/C(P,"\P,# 013Y34E8033=%34521T5.0UDA(" @(" @
M(" @P>#%E(" P>#%C*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O
M,# P,# N,#1%/C,P,"\P,# 013Y34E8033=%34521T5.0UDA(" @(" @(" @P
M>#%C*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%
M/C,P,"\P,# 013Y34E8033=%34521T5.0UDA(" @(" @(" @P>#%F(" P>#%C
M*0TC("LK*RLK*RLK*RLK*RLK(\$=0;V0@8V]U<G-E("AT96YS+W5N:71S*2 H
M4T4K,C@@8GET92D-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P
M,# P+C T13XP,# O,# P+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @(" H,'@Q
M8RD-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP
M,#\$0,# P+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @(" H,'@Q9"D-1S-.4E<J
M/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#(O,# P+T4^
M4U)6+TTW14U%4D=%3D-9(2 @(" @(" H,'@Q92D-1S-.4E<J/D%013\$P,#I
M,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP,#,O,# P+T4^4U)6+TTW14U%
M4D=%3D-9(2 @(" @(" H,'@Q9BD-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P
M,# N,#!3+S P,# P+C T13XP,#00,# P+T4^4U)6+TTW14U%4D=%3D-9(0U'
M,TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%/C P-2\P
M,# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP
M,# P+C P4R\P,# P,"XP-\$4^,#DX+S P,"]%/E-25B]--T5-15)'14Y#62\$-
M1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XP.3D0
M,# P+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @(" H,'@W9BD-1S-.4E<J/D%0
M13\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T13XS-C O,# Y+T4^4U)6
M+TTW14U%4D=%3D-9(0TC("LK*RLK*RLK*RLK*RLK(\$)A9"!C;W5R<V4@* '1E
M;G,O=6YI=' ,I("A312LR."!B>71E*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z
M,# P,"XP,%,O,# P,# N,#1%/C,Y.2\P,# 013Y34E8033=%34521T5.0UDA
M(" @(" @(" @P>#%B*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O
M,# P,# N,#1%/C(T-" \P,# 013Y34E8033=%34521T5.0UDA(" @(" @(" @P
M>#%P*0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%
M/C,V,2\P,#D013Y34E8033=%34521T5.0UDA#2,@*RLK*RLK*RLK*RLK*RL@
M4UE-0D],4PTC("LK*RLK*RLK*RLK*RLK(\$=0;V0@<WEM8F]L<R]O=F5R;&%Y
M<PU',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,O,# P,# N,#1%(3 P
M-" \P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHP,# P+C P4UPP,# P,"XP-\$4A,# T+S T,"]%/E-25B]--T5-15)'14Y#
M62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!3+S P,# P+C T12,P
M,#00,#0P+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V
M,S-Z,# P,"XP,%,<,# P,# N,#1%(S P-" \P-# 013Y34E8033=%34521T5.

M0UDA#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4T\$P,# P,"XP-\$4C
M,# T+S T,"]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P,#I ,#(Q
M-C,S>C P,# N,#!36C P,# P+C T12,P,#00,#0P+T4^4U)6+TTW14U%4D=%
M3D-9(0U',TY25RH^,# P,% P.F!V6" @(" C, U',TY25RH^,# P,% P.F!V
M6" @(" C.0U',TY25RH^05!%,3 P.D P,C\$V,S-Z,# P,"XP,%,0,# P,# N
M,#1%>3 P-"P-# 013Y34E8033=%34521T5.0UDA#4<S3E)7*CY!4\$4Q,# Z
M0# R,38S,WHP,# P+C P4UPP,# P,"XP-\$5[,# T+S T,"]%/E-25B]--T5-
M15)'14Y#62\$-(R K*RLK*RLK*RLK*RLK*R!"860@<WEM8F]L<R]O=F5R;&%Y
M<PU',TY25RH^,3(S-#4V.F!V6" @(" ^#4<S3E)7*CY!4\$4Q,# Z0# R,38S
M,WHP,# P+C P4R\P,# P,"XP-\$4@,# T+S T,"]%/E-25B]--T5-15)'14Y#
M62\$-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N,#!37# P,# P+C T12 P
M,#00,#0P+T4^4U)6+TTW14U%4D=%3D-9(0U',TY25RH^05!%,3 P.D P,C\$V
M,S-Z,# P,"XP,%,0,# P,# N,#1%?S P-"P-# 013Y34E8033=%34521T5.
M0UDA(" @(" @(" H,'@W9BD-1S-.4E<J/D%013\$P,#I ,#(Q-C,S>C P,# N
M,#!37# P,# P+C T17\P,#00,#0P+T4^4U)6+TTW14U%4D=%3D-9(2 @(" @
M(" @*#!X-V8I#4<S3E)7*CY!4\$4Q,# Z0# R,38S,WHP,# P+C P4T\$P,# P
M,"XP-\$4A,# T+S T,"]%/E-25B]--T5-15)'14Y#62\$-1S-.4E<J/D%013\$P
M,#I ,#(Q-C,S>C P,# N,#!37# P,# P+C T12DP,#00,#0P+T4^4U)6+TTW
M14U%4D=%3D-9(0U',TY25RH^,# P,% P.F!V6" @(" C)@U',TY25RH^,# P
.,% P.F!V6" @(" C)@T
,

end

--Emailer_-1246598850--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 2 14:22:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08157
for <lyris.aprsspec@tapr.org>; Wed, 2 Aug 2000 14:22:27 -0500 (CDT)
Message-ID: <LYR11589-100067-2000.08.02-14.27.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 2 Aug 2000 20:22:51 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: New Mic-E Test Suite available
References: <LYR14779-100042-2000.08.02-11.51.40--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-100042-2000.08.02-11.51.40--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <\$F\$Jm9ALUHi5Ew6z@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR14779-100042-2000.08.02-11.51.40--

Ian.Wade@care4free.net@lists.tapr.org>, Steve

Dimse <sdimse@earthlink.net> writes

>On 8/2/00 11:52 AM Ian Wade (Ian.Wade@care4free.net) wrote:

>

>>I have just produced a new test suite for Mic-E software. It consists of
>>around 200 carefully crafted packets, designed to stretch the Mic-E
>>software in all directions.

>>

>Here's the output of APRServe's parser if anyone cares to write a program
>to reconcile Ian's report format with the converted packets, or perhaps
>Ian would like to run this through his program and diff the result...

>

>Too painful to go through a couple hundred lines by hand...

>

Steve, I've just endured the pain. And I'm sorry to say it **was** painful. There are **many** errors in your conversions.

I'm attaching my comments (in 3 parts to allow me to post here).

In summary, there are 5 common errors:

1. Latitude conversion of packets containing Custom message codes is completely wrong.
2. Custom message codes are incorrectly interpreted.
3. Position ambiguity is, er, ambiguous. Well and truly screwed, with some wrong hemispheres (e.g. West instead of East), and in one case 20 deg long became 120 deg long.
4. Reports containing symbols with numeric overlays were not converted for some reason.
5. The raw data had several sections containing bad packet data. None of these packets should have been converted.

Here is part 1 of my comments. Errors are underlined with ~

PART 1 of 3

++++++ Good latitude values

G3NRW*>APE100:@021633z0000.00S/00000.00E>004/040/E>SRV/M7EMERGENCY! (0x1c)

G3NRW*>APE100:@021633z0123.45S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z6759.00S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z0012.34N/12021.22W>025/232/E>SRV/M00ff Duty

G3NRW*>APE100:@021633z5656.99N/12021.22W>025/232/E>SRV/M00ff Duty

G3NRW*>APE100:@021633z1230.12S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~  
should be:           0120.12                               C0Custom-0

G3NRW\*>APE100:@021633z4563.45S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~  
should be: 3453.45 C0Custom-0

G3NRW*>APE100:@021633z7864.56S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~  
should be:           6754.56                               C0Custom-0

G3NRW\*>APE100:@021633z9012.99S/02021.22E>025/232/E>SRV/M3Returning

~~~~~  
should be: 8012.99 C3Custom-3

G3NRW*>APE100:@021633z0000.00S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z0000.01S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z9000.00S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z8959.99S/02021.22E>025/232/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z10000.00S/02021.22E>025/232/E>SRV/M3Returning

~~~~~  
should be:           9000.00                               C3Custom-3

G3NRW\*>APE100:@021633z10069.99S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~  
should be: 8959.99 C0Custom-0

G3NRW*>APE100:@021633z0123.52S/02021.22W>025/232/E>SRV/M7EMERGENCY!

~~~~~       ~~~~~  
should be:           0123.4 S (i.e. space before the S)

should be:                       02021.2 E (i.e. East, not West, and a space before

the E)

G3NRW\*>APE100:@021633z0123.112S/12021.22W>025/232/E>SRV/M7EMERGENCY!

```

      should be:      ~~~~~~ ~~~~~~
                      0123. S (i.e. 2 spaces after the dot)
      should be:      12021. E (i.e. East, not West, and 2 spaces after
the dot)
```

G3NRW\*>APE100:@021633z0123.105S/12021.22E>025/232/E>SRV/M7EMERGENCY!

```

      should be:      ~~~~~~ ~~~~~~
                      0123. S (i.e. 2 spaces after the dot)
      should be:      12021. E (2 spaces after the dot)
```

G3NRW\*>APE100:@021633z0130.110N/12021.22W>025/232/E>SRV/M7EMERGENCY!

```

      should be:      ~~~~~~ ~~~~~~
                      012 . N (i.e. space before the dot, 2 spaces after the dot)
      should be:      1202 . W (i.e. space before the dot, 2 spaces
after the dot)
```

G3NRW\*>APE100:@021633z0132.00N/02021.22E>025/232/E>SRV/M7EMERGENCY!

```

      should be:      ~~~~~~ ~~~~~~
                      012 . S (i.e. South, not North, space before the dot, 2
spaces after the
dot)
      should be:      0202 . E (i.e. space before the dot, 2 spaces
after the dot)
```

G3NRW\*>APE100:@021633z0132.100N/12021.22E>025/232/E>SRV/M7EMERGENCY!

```

      should be:      ~~~~~~ ~~~~~~
                      012 . S (i.e. South, not North, space before the dot, 2
spaces after the
dot)
      should be:      1202 . E (space before the dot, 2 spaces after
the dot)
```

G3NRW\*>APE100:@021633z01130.130N/12021.22W>025/232/E>SRV/M6PRIORITY

```

      should be:      ~~~~~~ ~~~~~~ ~~~~~~
                      01 . N (i.e. 2 spaces before the dot, 2 spaces after the
dot)
      should be:      020 . W (i.e. 2 spaces before the dot, 2 spaces
after the
dot,
```

should be: should be 020 degrees, not 120)  
M7EMERGENCY

G3NRW\*>APE100:@021633z12110.12S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~      ~~~~~      ~~~~~  
should be: 01 . S (i.e. 2 spaces before the dot, 2 spaces after the
dot)

should be: 020 . E (i.e. 2 spaces before the dot, 2 spaces
after the dot)

should be: C0Custom0

G3NRW*>APE100:@021633z40111.99S/02021.22E>025/232/E>SRV/M2En Route

~~~~~      ~~~~~      ~~~~~  
should be:      30   .   S (i.e. 2 spaces before the dot, 2 spaces after the  
dot)

should be:                      020   .   E (i.e. 2 spaces before the dot, 2 spaces  
after the dot)

should be:                                      C2Custom2

# ++++++ Bad Latitude values

ALL OF THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
G3NRW*>APE100:@021633z9000.01S/02021.22E>025/232/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z6760.00S/02021.22E>025/232/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z5678.99N/12021.22W>025/232/E>SRV/M00ff Duty
G3NRW*>APE100:@021633z10012.99S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z2000.00S/02021.22E>025/232/E>SRV/M5Special
G3NRW*>APE100:@021633z10100.00S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z2100.00S/02021.22E>025/232/E>SRV/M5Special
G3NRW*>APE100:@021633z11100.00S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z13000.00S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z14000.00S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z15000.00S/02021.22E>025/232/E>SRV/M3Returning
G3NRW*>APE100:@021633z00001.00N/02021.22E>025/232/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z00000.20S/12021.22E>025/232/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z00000.09S/02021.22W>025/232/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z11000.00S/02021.22E>025/232/E>SRV/M3Returning

continued in Part 2

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 2 14:30:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA09199
for <lyris.aprsspec@tapr.org>; Wed, 2 Aug 2000 14:30:41 -0500 (CDT)
Message-ID: <LYR11589-100071-2000.08.02-14.36.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 2 Aug 2000 20:29:50 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <Ian.Wade@care4free.net>
Reply-To: ianwade@netro.co.uk
Subject: [aprsspec] Re: New Mic-E Test Suite available
References: <LYR14779-100042-2000.08.02-11.51.40--
Ian.Wade#care4free.net@lists.tapr.org>
In-Reply-To: <LYR14779-100042-2000.08.02-11.51.40--
Ian.Wade#care4free.net@lists.tapr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <vV2NyHBuaHi5Ew57@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

PART 3 of 3

```
# ++++++ SPEED
# ++++++ Good speed (hundreds/tens) (SP+28 byte)
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/000/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/000/E>SRV/M7EMERGENCY!      (0x1c)
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/010/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/010/E>SRV/M7EMERGENCY!      (0x1d)
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/020/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/020/E>SRV/M7EMERGENCY!      (0x1e)
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/030/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/030/E>SRV/M7EMERGENCY!      (0x1f)
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/180/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/180/E>SRV/M7EMERGENCY!
```

G3NRW*>APE100:@021633z0000.00S/000000.04E>004/190/E>SRV/M7EMERGENCY! (0x7f)
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/190/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/200/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/210/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/780/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/790/E>SRV/M7EMERGENCY!

++++++ Bad speed (hundreds/tens) (SP+28 byte)

THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

G3NRW*>APE100:@021633z1000.00S/000000.04E>004/-10/E>SRV/M7EMERGENCY! (0x1b)
G3NRW*>APE100:@021633z1000.00S/000000.04E>004/-1560/E>SRV/M7EMERGENCY! (0x80)

++++++ Good speed (units) (DC+28 byte)

G3NRW*>APE100:@021633z0000.00S/000000.04E>004/000/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/000/E>SRV/M7EMERGENCY! (0x1c)
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/001/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/001/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/002/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/002/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/003/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/003/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/004/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/004/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/005/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/005/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/006/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/006/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/007/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/007/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/008/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/008/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/009/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>004/009/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>304/009/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/000000.04E>304/009/E>SRV/M7EMERGENCY!

++++++ Bad speed (units) (DC+28 byte)

THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
G3NRW\*>APE100:@021633z1000.00S/000000.04E>-96/000/E>SRV/M7EMERGENCY! (0x1b)  
G3NRW\*>APE100:@021633z1000.00S/000000.04E>404/009/E>SRV/M7EMERGENCY!

# ++++++ COURSE

# ++++++ Good course (hundreds) (DC+28 byte)

G3NRW\*>APE100:@021633z0000.00S/000000.04E>000/000/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>000/000/E>SRV/M7EMERGENCY! (0x1c)  
0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>100/000/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>100/000/E>SRV/M7EMERGENCY! (0x1d)  
0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>200/000/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>200/000/E>SRV/M7EMERGENCY! (0x1e)  
0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>300/000/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>300/000/E>SRV/M7EMERGENCY! (0x1f)  
0x1c)

# ++++++ Good course (tens/units) (SE+28 byte)

G3NRW\*>APE100:@021633z0000.00S/000000.04E>000/000/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>001/000/E>SRV/M7EMERGENCY! (0x1d)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>002/000/E>SRV/M7EMERGENCY! (0x1e)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>003/000/E>SRV/M7EMERGENCY! (0x1f)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>004/000/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>005/000/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>098/000/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>099/000/E>SRV/M7EMERGENCY! (0x7f)  
G3NRW\*>APE100:@021633z0000.00S/000000.04E>360/009/E>SRV/M7EMERGENCY!

# ++++++ Bad course (tens/units) (SE+28 byte)

ALL OF THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
G3NRW*>APE100:@021633z0000.00S/000000.04E>399/000/E>SRV/M7EMERGENCY! (0x1b)
G3NRW*>APE100:@021633z0000.00S/000000.04E>244/000/E>SRV/M7EMERGENCY! (0x80)
G3NRW*>APE100:@021633z0000.00S/000000.04E>361/009/E>SRV/M7EMERGENCY!

++++++ SYMBOLS

++++++ Good symbols/overlays

```
G3NRW*>APE100:@021633z0000.00S/00000.04E!004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S\00000.04E!004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00000.04E#004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S\00000.04E#004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00SA00000.04E#004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00SZ00000.04E#004/040/E>SRV/M7EMERGENCY!
```

G3NRW*>0000P0:`vX #0

~~~~~

should be:

G3NRW\*>APE100:@021633z0000.00S000000.04E#004/040/E>SRV/M7EMERGENCY!

~

G3NRW\*>0000P0:`vX #9

~~~~~

should be:

G3NRW*>APE100:@021633z0000.00S900000.04E#004/040/E>SRV/M7EMERGENCY!

~

G3NRW*>APE100:@021633z0000.00S/00000.04Ey004/040/E>SRV/M7EMERGENCY!

G3NRW*>APE100:@021633z0000.00S\00000.04E{004/040/E>SRV/M7EMERGENCY!

++++++ Bad symbols/overlays

ALL OF THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~

G3NRW\*>123456:`vX > (The Information field is only 8 bytes long instead of 9)

G3NRW\*>APE100:@021633z0000.00S/00000.04E 004/040/E>SRV/M7EMERGENCY!

G3NRW\*>APE100:@021633z0000.00S\00000.04E 004/040/E>SRV/M7EMERGENCY!

G3NRW\*>APE100:@021633z0000.00S/00000.04E004/040/E>SRV/M7EMERGENCY! (0x7f)

G3NRW\*>APE100:@021633z0000.00S\00000.04E004/040/E>SRV/M7EMERGENCY! (0x7f)

G3NRW\*>APE100:@021633z0000.00SA00000.04E!004/040/E>SRV/M7EMERGENCY!

G3NRW\*>APE100:@021633z0000.00S\00000.04E)004/040/E>SRV/M7EMERGENCY!

G3NRW\*>0000P0:`vX #&

G3NRW\*>0000P0:`vX #&

---

You are currently subscribed to aprsspec as: [lyris.aprsspec@tapr.org](mailto:lyris.aprsspec@tapr.org)

To unsubscribe send a blank email to [leave-aprsspec-11589P@lists.tapr.org](mailto:leave-aprsspec-11589P@lists.tapr.org)



Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 2 14:31:07 2000  
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])  
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA09221  
for <lyris.aprsspec@tapr.org>; Wed, 2 Aug 2000 14:31:05 -0500 (CDT)  
Message-ID: <LYR11589-100072-2000.08.02-14.36.04--  
lyris.aprsspec@lists.tapr.org>  
Date: Wed, 2 Aug 2000 20:29:01 +0100  
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>  
From: Ian Wade <Ian.Wade@care4free.net>  
Reply-To: ianwade@netro.co.uk  
Subject: [aprsspec] Re: New Mic-E Test Suite available  
References: <LYR14779-100042-2000.08.02-11.51.40--  
Ian.Wade@care4free.net@lists.tapr.org>  
In-Reply-To: <LYR14779-100042-2000.08.02-11.51.40--  
Ian.Wade@care4free.net@lists.tapr.org>  
MIME-Version: 1.0  
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>  
List-Software: Lyris Server version 3.0  
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>  
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>  
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>  
X-Message-Id: <t1SN+CB9ZHi5Ewbd@care4free.net>  
Sender: bounce-aprsspec-11589@lists.tapr.org  
Precedence: bulk

PART 2 of 3

# ++++++ Good message codes

G3NRW\*>APE100:@021633z0000.00S/02021.22E>025/232/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/02021.22E>025/232/E>SRV/M6PRIORITY  
G3NRW\*>APE100:@021633z0120.00S/02021.22E>025/232/E>SRV/M5Special  
G3NRW\*>APE100:@021633z0120.00S/02021.22E>025/232/E>SRV/M4Committed  
G3NRW\*>APE100:@021633z2030.00S/02021.22E>025/232/E>SRV/M3Returning  
G3NRW\*>APE100:@021633z3040.00S/02021.22E>025/232/E>SRV/M2En Route  
G3NRW\*>APE100:@021633z5650.00S/02021.22E>025/232/E>SRV/M1In Service  
G3NRW\*>APE100:@021633z89100.00S/02021.22E>025/232/E>SRV/M0Off Duty

~~~~~  
should be: 89 . S (i.e. 2 spaces before the dot, 2 spaces after the dot)

should be: 020 . E (i.e. 2 spaces before the dot, 2 spaces after the dot)

G3NRW*>APE100:@021633z0010.00S/02021.22E>025/232/E>SRV/M6PRIORITY

~~~~~  
should be: 0000.00 C6Custom6

G3NRW\*>APE100:@021633z0200.00S/02021.22E>025/232/E>SRV/M5Special

~~~~~  
should be: 0100.00 C5Custom5

G3NRW*>APE100:@021633z0340.00S/02021.22E>025/232/E>SRV/M4Committed

~~~~~  
should be: 0230.00 C4Custom4

G3NRW\*>APE100:@021633z5000.00S/02021.22E>025/232/E>SRV/M3Returning

~~~~~  
should be: 4000.00 C3Custom3

G3NRW*>APE100:@021633z6060.00S/02021.22E>025/232/E>SRV/M2En Route

~~~~~  
should be: 5050.00 C2Custom2

G3NRW\*>APE100:@021633z8900.00S/02021.22E>025/232/E>SRV/M1In Service

~~~~~  
should be: 7800.00 C1Custom1

G3NRW*>APE100:@021633z10230.00S/02021.22E>025/232/E>SRV/M00ff Duty

~~~~~  
should be: 9012.00 (and hence rejected because >90)  
should be: C0Custom 0

# ++++++ Bad message codes

ALL OF THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
(They contain a mixture of Standard "1" bits and Custom "1" message bits)

G3NRW*>APE100:@021633z1200.00S/02021.22E>025/232/E>SRV/M00ff Duty

G3NRW*>APE100:@021633z1000.00S/02021.22E>025/232/E>SRV/M2En Route

G3NRW*>APE100:@021633z0110.00S/02021.22E>025/232/E>SRV/M00ff Duty

++++++ LONGITUDE

++++++ Good longitude degrees (d+28 byte)

```
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00100.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00200.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00800.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00900.04E>004/040/E>SRV/M7EMERGENCY!      (0x7f)
G3NRW*>APE100:@021633z0000.00S/01000.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/01100.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/09700.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/09800.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/09900.04E>004/040/E>SRV/M7EMERGENCY!      (0x7f)
G3NRW*>APE100:@021633z0000.00S/10000.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/10100.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/10800.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/10900.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/11000.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/11100.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/17800.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/17900.04E>004/040/E>SRV/M7EMERGENCY!
```

++++++ Bad longitude degrees (d+28 byte)

ALL OF THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

```
G3NRW*>APE100:@021633z0000.00S/10900.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/10400.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/10000.04E>004/040/E>SRV/M7EMERGENCY!      (0x1d)
G3NRW*>APE100:@021633z0000.00S/10300.04E>004/040/E>SRV/M7EMERGENCY!      (0x1f)
G3NRW*>APE100:@021633z0000.00S/07300.04E>004/040/E>SRV/M7EMERGENCY!      (0x01)
```

++++++ Good longitude minutes (m+28 byte)

```
G3NRW*>APE100:@021633z0000.00S/00000.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00001.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00008.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00009.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00010.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00011.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00058.04E>004/040/E>SRV/M7EMERGENCY!
G3NRW*>APE100:@021633z0000.00S/00059.04E>004/040/E>SRV/M7EMERGENCY!
```

++++++ Bad longitude minutes (m+28 byte)

THE REPORTS BELOW ARE WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
G3NRW\*>APE100:@021633z0000.00S/00010.04E>004/040/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/00009.04E>004/040/E>SRV/M7EMERGENCY!

# ++++++ Good longitude hundredths (h+28 byte)  
G3NRW\*>APE100:@021633z1000.00S/00000.00E>004/040/E>SRV/M7EMERGENCY! (0x1c)  
G3NRW\*>APE100:@021633z0000.00S/00000.01E>004/040/E>SRV/M7EMERGENCY! (0x1d)  
G3NRW\*>APE100:@021633z0000.00S/00000.02E>004/040/E>SRV/M7EMERGENCY! (0x1e)  
G3NRW\*>APE100:@021633z0000.00S/00000.03E>004/040/E>SRV/M7EMERGENCY! (0x1f)  
G3NRW\*>APE100:@021633z0000.00S/00000.04E>004/040/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/00000.05E>004/040/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/00000.98E>004/040/E>SRV/M7EMERGENCY!  
G3NRW\*>APE100:@021633z0000.00S/00000.99E>004/040/E>SRV/M7EMERGENCY! (0x7f)

# ++++++ Bad longitude hundredths (h+28 byte)

THE REPORTS BELOW ARE BADLY WRONG AND SHOULD NOT HAVE BEEN GENERATED AT ALL.

~~~~~  
G3NRW*>APE100:@021633z1000.00S/00000.-1E>004/040/E>SRV/M7EMERGENCY! (0x1b)
G3NRW*>APE100:@021633z1000.00S/00000.-156E>004/040/E>SRV/M7EMERGENCY! (0x80)

Continued in Part 3

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 2 15:42:17 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA25603
for <lyris.aprsspec@tapr.org>; Wed, 2 Aug 2000 15:42:11 -0500 (CDT)
Message-Id: <LYR11589-100077-2000.08.02-15.47.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: New Mic-E Test Suite available
Date: Wed, 2 Aug 2000 16:41:46 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008022041.NAA18933@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/2/00 3:22 PM Ian Wade (Ian.Wade@care4free.net) wrote:

>Steve, I've just endured the pain. And I'm sorry to say it **was** painful.

Your choice to do 200+ cases ;-) Thank you for going to the effort.

>There are **many**
>errors in your conversions.

>

>I'm attaching my comments (in 3 parts to allow me to post here).

>

>In summary, there are 5 common errors:

>

>1. Latitude conversion of packets containing Custom message codes is
>completely wrong.

>

>2. Custom message codes are incorrectly interpreted.

>

Custom messages were introduced long after my code, so no surprise there.

>3. Position ambiguity is, er, ambiguous. Well and truly screwed, with some
>wrong hemispheres
>(e.g. West instead of East), and in one case 20 deg long became 120 deg long.

>

Ambiguity in Mic-E packets was also introduced long after my code was
completed as well.

>4. Reports containing symbols with numeric overlays were not converted for
>some reason.

>

That was a "real" bug, a precedence problem...easily fixed with a pair of
parentheses. Thanks.

>5. The raw data had several sections containing bad packet data. None of
>these packets should
>have been converted.

>

I don't agree...garbage in, garbage out. My code is supposed to be a

conversion, not a validation. If the packet is simply dropped, there is no clue as to why there is a problem. But if someone is writing a Pic-E program and makes a mistake, it is far more helpful to them if they see that the converted latitude is 150 degrees than if the packet simply disappears.

Am I correct that the validation suite did not catch the 0.01 problem that precipitated all this? Or did I just miss it in the printout? Which of the test cases, if any, were supposed to (or did) pick this up?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 2 17:08:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19265
for <lyris.aprsspec@tapr.org>; Wed, 2 Aug 2000 17:08:20 -0500 (CDT)
Date: Wed, 02 Aug 2000 18:02:56 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Subject: [aprsspec] Re: New Mic-E Test Suite available
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Reply-to: quesnelb@ve2.ele.etsmtl.ca
Message-id: <LYR11589-100095-2000.08.02-17.13.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: MULTIPART/ALTERNATIVE;
BOUNDARY="Boundary_(ID_oD2AoWwGeu5pmWXcT2ZF8Q)"
X-Accept-Language: en
References: <LYR15694-100077-2000.08.02-15.47.26--
quesnelb@ve2.ele.etsmtl.ca@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <39889A90.38E9DE42@ve2.ele.etsmtl.ca>
Precedence: bulk

--Boundary_(ID_oD2AoWwGeu5pmWXcT2ZF8Q)
Content-type: text/plain; charset=us-ascii

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <CQgWTOA3lSi5EwMm@care4free.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <200008022041.NAA18933@snipe.prod.itd.earthlink.net>, Steve Dimse <sdimse@earthlink.net> writes

>
>>In summary, there are 5 common errors:
>>
>>1. Latitude conversion of packets containing Custom message codes is
>>completely wrong.
>>
>>2. Custom message codes are incorrectly interpreted.
>>
>Custom messages were introduced long after my code, so no surprise there.
>
>>3. Position ambiguity is, er, ambiguous. Well and truly screwed, with some
>>wrong hemispheres
>>(e.g. West instead of East), and in one case 20 deg long became 120 deg long.
>>
>Ambiguity in Mic-E packets was also introduced long after my code was
>completed as well.
>

I don't know when your code was "completed", but custom messages and position ambiguity were documented *years* ago by Crosswell and Parsons (I don't have the document to hand right now, but it appeared long before the current spec).

>
>>5. The raw data had several sections containing bad packet data. None of
>>these packets should
>>have been converted.
>>
>I don't agree...garbage in, garbage out. My code is supposed to be a
>conversion, not a validation. If the packet is simply dropped, there is
>no clue as to why there is a problem. But if someone is writing a Pic-E
>program and makes a mistake, it is far more helpful to them if they see
>that the converted latitude is 150 degrees than if the packet simply
>disappears.
>

Problem is, your garbage out wasn't generated consistently, so in most cases it bore little relationship to the garbage in. This is totally useless in diagnosing faulty PIC programs -- and if *good* data in produces *garbage* out, what chance does anyone have?

In any case, the world-wide APRS Internet is not the place to be testing such programs.

>Am I correct that the validation suite did not catch the 0.01 problem
>that precipitated all this? Or did I just miss it in the printout? Which
>of the test cases, if any, were supposed to (or did) pick this up?

The "longitude hundredths" sections were intended to do this.

The bottom line is that APRServe is badly broken. As a result, many people throughout the world have spent many, many hours trying to track down the source of bad packets (totally wrong Custom latitudes, wrong custom message codes, latitudes with 3 or 4 digits after the decimal point, latitudes > 90, wrong hemisphere, longitude off by +/- 100 degrees, no position ambiguity, etc, etc).

You said the other day that Dale did a great job in fixing aprsd. Now, *perleese*, do the same with APRServe.

And ditto to anyone else who is using APRServe-related code. With bugs propagating around the world in minutes, this sloppy, amateurish, arrogant attitude to programming has to stop.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

--

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
|                               email: g3nrw@tapr.org      |
|                               |                          |
|   APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.tapr.org/~g3nrw      |
|   Mic-Encoder Software: http://www.tapr.org/~g3nrw      |
+-----+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 3 08:26:40 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA29062
for <lyris.aprsspec@tapr.org>; Thu, 3 Aug 2000 08:26:32 -0500 (CDT)
Message-Id: <LYR11589-100219-2000.08.03-08.31.39--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: New Mic-E Test Suite available
Date: Thu, 3 Aug 2000 09:25:50 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: multipart/mixed; boundary="Emailer_-1246378499"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008031325.JAA16763@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

--Emailer_-1246378499
Content-Type: text/plain; charset="US-ASCII"

On 8/3/00 4:12 AM Ian Wade (Ian.Wade@care4free.net) wrote:

>>Ambiguity in Mic-E packets was also introduced long after my code was
>>completed as well.
>>
>I don't know when your code was "completed", but custom messages and
>position ambiguity were documented *years* ago by Crosswell and Parsons
>(I don't have the document to hand right now, but it appeared long
>before the current spec).
>
Well, attached is the mic_e.c file from Alan circa 5/97, it has no
mention of either, my code is of the same vintage. To the best of my
knowledge, both of these features originated in the D-700 within the last
year or so. These just suddenly appeared in a finished product without
prior notice (at least to me), an example of why the APRS-WG was needed.

Want more proof? Look at

<http://www.aprs.net/vm/DOS/MICE.HTM>

This was the Mic-E documentation file of APRSdos in 8/97. It also has no mention of either.

>In any case, the world-wide APRS Internet is not the place to be testing
>such programs.

>

But it is the place where they often are tested.

>

>>Am I correct that the validation suite did not catch the 0.01 problem
>>that precipitated all this? Or did I just miss it in the printout? Which
>>of the test cases, if any, were supposed to (or did) pick this up?

>

>The "longitude hundredths" sections were intended to do this.

>

So why didn't it catch it? Surely you did not make a mistake???

>

>The bottom line is that APRServe is badly broken. As a result, many
>people throughout the world have spent many, many hours trying to track
>down the source of bad packets (totally wrong Custom latitudes, wrong
>custom message codes, latitudes with 3 or 4 digits after the decimal
>point, latitudes > 90, wrong hemisphere, longitude off by +/- 100
>degrees, no position ambiguity, etc, etc).

>

Who are these "many people" that spent these "many, many hours"???

This code is only applied to input from the TNC...unlike aprsd, APRServe only converts local Mic-E packets. Therefore, it appears you are making up "throughout the world". At its peak APRServe ran in 4 locations, it is presently running in 2. So unless you care to argue LA and Milwaukee (and previously including Nashville and Miami) are "throughout the world", you are displaying your own bias towards making the problem seem far more important than it is.

>You said the other day that Dale did a great job in fixing aprsd. Now,
>*perleese*, do the same with APRServe.

>

I never said I wasn't. The fact that I exposed my results publicly, to what I was sure would be your demeaning attitude (and you didn't disappoint) shows my willingness to improve in this area.

I'll be dropping Dale's procedure into APRServe when I get a chance. He passes it a broken up packet and output buffers, I pass in the full packet. If someone wants to convert Dale's procedure to the later format it will happen sooner, undoubtably to the great relief of the many temporally-challenged people in SoCal and Milwaukee...

>And ditto to anyone else who is using APRServe-related code. With bugs
>propagating around the world in minutes, this sloppy, amateurish,
>arrogant attitude to programming has to stop.

>

You make statements like this, then when I call you on them you say you weren't insulting me. This sure seems like a direct insult. There is nothing sloppy or amateurish about this. A new feature is added after active maintenance of a program has ceased. No one ever complained about the lack of support for these two rarely used features. I was working on other things. It never got done, just like the 30 other things on the APRServe do list, and the hundred or more on the javAPRS list.

Like Dale, I feel an obligation to try to keep my old program useful, but frankly with just two sites it isn't that high a priority to me. That I've moved on to findU, something I find far more interesting, and that affects far more people, doesn't make me sloppy or amateurish. And as to arrogant, I'd say this message shows you are as deserving of that label as I.

Steve K4HG

--Emailer_-1246378499

Content-Type: application/octet-stream; name="mic_e.c";

x-mac-type="54455854";

x-mac-creator="43574945"

Content-transfer-encoding: x-uuencode

Content-Disposition: Attachment; filename="mic_e.c"

begin 644 mic_e.c

```
M+RH- ("H@;6EC7V4Z(&9U;F-T:6]N('10(')E9F]R;6%T($%04E,@36EC($5N
M8V]D97(@8V]M<' )E<W-E9"!P;W-I=&EO;B!R97!O<G0- ("H@(&EN=&\@82!C
M;VYV96YT:6]N86P@*&YO;BUB:6YA<GDI('1R86-K97(@<F5P;W)T+@T@*B D
M3&]G.B!M:6-?92YC+'8@) T@*B!2979I<VE0;B Q+C,@(#$Y.3<0,#40,38@
M,##,Z-#DZ-3 @(&%L86X- ("H@=6YT97-T960@8V]R<F5C=&EO;G,@=&\@;6%T
M8V@<' )09'5C=&EO;B!R978N#2 J#2 J(%)E=FES:6]N(#$N,B @,3DY-R\P
M-2\P,R P-3HS.3HS-R @86QA;@T@*B Q<W0@<&%S<R!A="!A9&1I;F<@<F5V
M(#$08VAA;F=E<RX@(%-0;64@<W1U9F8@9&]E<VXG="!M871C:"!D;V-S+@T@
M*@T@*B\-(VEN8VQU9&4@/'-T9&EO+F@^#2-I;F-L=61E(#QT:6UE+F@^#2-I
M;F-L=61E(#QS=' )I;F<N:#X-(VEN8VQU9&4@/&-T>7!E+F@^#2-I;F-L=61E
M(#QT>7!E<RYH/@TC:6YC;'5D92 B;6EC7V4N:("(-#7-T871I8R!C:&%R("IM
M<V=N86UE6UT@/2![#2 @(D)F9B!D=71Y(BP-(" B16YR;W5T92(L#2 @(DEN
M(%-E<G9I8V4B+ T@(")2971U<FYI;F<B+ T@(")#;VUM:71T960B+ T@(")3
M<&5C:6%L(BP-(" B4%))3U))5%DB+ T@(")%34521T5.0UDB#7T[#0UT>7!E
M9&5F('5N<VEG;F5D(' -H;W)T('5?:6YT.PT-<VAO<G0@<F5F;W)M871-:6-%
M*&-H87(@*G0Q+&-H87(@*G1E;&5M*0U[#2 @=5]I;G0@;7-G+'-P+&1C+'-E
M+'-P9"QC<V4[#2 @8VAA<B!N;W)T:"P@=V5S=#L-("!S:&]R="!L;VXQ+&QO
M;D1$+&QO;DU-+&QO;DA(.PT@(&-H87(@*F)P+"IH<#L-("!C:&%R(&)U9C%;
M-3$R72QH96%D6S(P,%T[#2 @<W1R=6-T('1M("IG;70[#2 @96YU;2![;F]N
```

M93TP+"!"151!+"!2158Q?2!R978@/2!N;VYE.R 0*B!M:6-?92!R979I<VEO
M;B!L979E;" J+PT@(' -H;W)T(&=P<U]V86QI9"](# [#2 @8VAA<B!S>6UT
M8FP@/2 G+R<L(' -Y;6)O;"]("<D)SL-#0DJ=&5L96T@/2 P.PT@(' EC:&%R
M("IT(#T@<W1R8VAR*!0Q+ "<^)RDK,3L-(")8VAA<B J:2](' -T<F-H<BAT
M,2PG.B<I*S\$[#2 @"6EF("AT/3UN:6PI(')E='5R;B!F86QS93L-("):68@
M*&D]/6YI;"D@<F5T=7)N(&9A;' -E.PT@(' ES:&]R="!L(#T@<W1R;&5N*&DI
M.PT@(' DJ*&DM,2D@/2 P.PT)#0EB<"]('0Q.PT):' @/2!H96%D.PT)=VAI
M;&4@*"IB<" A/2 G/B<I("IH<"LK(#T@*F)P*RL[#0DJ:' K*R]("<^)SL-
M"2IH<"LK(#T@)T\$G.PT)*FAP*RL@/2 G4"<[#0DJ:' K*R]("=2)SL-"2IH
M<"LK(#T@)U,G.PT)*F)P*RL[#0EW:&EL92 H*"IB<" A/2 G+<I("8F("@J
M8G @(3T@)SXG*2D@8G K*SL-"7=H:6QE("@J8G @(3T@)SHG*2 J:' K*R]
M("IB<"LK.PT)#2 @#2 @<W=I=&-H("AI6S!=*2!["0DO*B!P;W-S:6)L92!V
M86QI9"!-24,M12!F;&%G<R J+PT@(&-A<V4@,'@V,#H-(" @(&=P<U]V86QI
M9"](#\$[#2 @("!R978@/2!2158Q.PT@(" @8G)E86L[#2 @8V%S92 P>#(W
M.@T@(" @9W!S7W9A;&ED(#T@,#L-(" @(')E=B](%)%5C\$[#2 @("!B<F5A
M:SL-("!C87-E(#!X,6,Z#2 @("!G<' -?=F%L:60@/2 Q.PT@(" @<F5V(#T@
M0D5403L-(" @(&)R96%K.PT@(&-A<V4@,'@Q9#H-(" @(&=P<U]V86QI9"]
M(# [#2 @("!R978@/2!"151!.PT@(" @8G)E86L[#2 @9&5F875L=#H-(")
M<F5T=7)N(&9A;' -E.PT@(" @8G)E86L[#2 @?0T@(&EF("AL(#X)(#<@)B8@
M*)E=B A/2!N;VYE*2D@>PT@(" @;7-G(#T@*AT6S!)=C!X-# I/S Z-"D@
M*R H*!1; ,5TF,'@T,"D_ ,#HR*2 K("H=%LR728P>#0P*3\P.C\$I.PT@(" @
M;F]R=&@@/2!T6S-=)C!X-# _TXG.B=3)SL-(" @('=E<W0@/2!T6S5=)C!X
M-# _U<G.B=%)SL-(" @(&Q0;C\$@/2!T6S1=)C!X-# [#2 @("!L;VY\$1"]
M(&E; ,5T@+2 R.#L-(" @(&Q0;DU-(#T@:5LR72 M(#X.PT@(" @;&]N2\$@@
M/2!I6S-=("T@,C@[#2 -I9F1E9B!\$14)51PT@(" @9G!R:6YT9BAS=&1E<G(L
M(G)A=R!L;VX@)3 R>" E,#)X("4P,GA<;B(L:5LQ72QI6S)=+&E; ,UTI.PT@
M(" @9G!R:6YT9BAS=&1E<G(L(F)E9F]R93H@;&]N1\$0])60L(&Q0;DU-/25D
M+!"!L;VY(2#TE9%QN(BQL;VY\$1"QL;VY-32QL;VY(2"D[#2-E;F1I9@T@(" @
M:68@*)E=B ^/2!2158Q*2![#2 @(" @(&EF("@Q.# @/#T@;&]N1\$0@)B8@
M;&]N1\$0@/#T@,3@Y*0T);&]N1\$0@+3T@.# [#2 @(" @(&EF("@Q.3 @/#T@
M;&]N1\$0@)B8@;&]N1\$0@/#T@,3DY*0T);&]N1\$0@+3T@,3DP.PT@(" @("!I
M9B H;&]N,2D-"6Q0;D1\$("L)(#\$P,#L-(" @(" @:68@*&Q0;DU-(#X@-C I
M#0EL;VY-32 M/2 V,#L-(" @('T-(VEF9&5F(\$1%0E5'#2 @("!F<')I;G1F
M*'-T9&5R<BPP869T97(Z(&Q0;D1\$/25D+!"!L;VY-33TE9"P@;&]N2\$@])61<
M;B(L;&]N1\$0L;&]N34TL;&]N2\$@I.PTC96YD:68-(" @(' -P(#T@:5LT72 M
M(#X.PT@(" @9&, @/2!I6S5=("T@,C@[#2 @("!S92](&E;-ET@+2 R.#L-
M(" @(' TO+R @("!I9B H<V4@/" T*2!P<FEN=&8H(BHJ*BH@8V]U<G-E(#T@
M)60@("5S7&XB+' -E+'0Q*3L-#2 -I9F1E9B!\$14)51PT@(" @9G!R:6YT9BAS
M=&1E<G(L(G-P/24P,G@@9&,]/24P,G@@<V4])3 R>%QN(BQS<"QD8RQS92D[
M#2-E;F1I9@T@(" @<W!D(#T@<W J,3 K9&,0,3 [#2 @("!C<V4@/2 H9&,E
M,3 I*CP\$, "MS93L-(" @(&EF("AR978@/CT@4D56,2D@>PT@(" @("!I9B H
M<W!D(#X)(#0P,"D-"7-P9" M/2 X,# [#2 @(" @(&EF("AC<V4@/CT@-# P
M*0T)8W-E("T)(#0P,#L-(" @('T-(" @('!I;65?="!S>7-T:6UE(#T@=&EM
M92AN:6PI.PTC:69D968@1\$5"54<-(" @('!R:6YT9B@B=&EM92]("5L9%QN
M(BQS>7-T:6UE*3L-(" @('!U=' ,H8W1I;64H)G-Y<W1I;64I*3L-(V5N9&EF
M#2 @("!G;70@/2!G;71I;64H)G-Y<W1I;64I.PT):68@*&=M="]/2!N:6PI
M(&=M="](&Q08V%L=&EM92@F<WES=&EM92D[#2 -I9F1E9B!\$14)51PT@(" @
M9G!R:6YT9BAS=&1E<G(L(G-Y;6)O;#TP>"4P,G@L(' -Y;71B;#TP>"4P,GA<

M;B(L:5LW72QI6SA=*3L-(V5N9&EF#2 @("!S>6UT8FP@/2 H;" ^/2 X("8F
M(')E=B ^/2!2158Q*3\@:5LX72 Z("<O)SL-(" @("J(')E=C\$@8G5G('=O
M<FMA<F]U;F0Z("!S96YD<R!N=6QL(' -Y;6)O;"]T86)L92!B>71E<R J+PT@
M(" @:68@*'-Y;71B;" A/2 G+R<@)B8@<WEM=&)L("\$)("=<7"<@#0DF)B A
M* "<P)R \ /2!S>6UT8FP@)B8@<WEM=&)L(#P]("<Y)RD-"28F("\$H)T\$G(#P]
M(' -Y;71B;" F)B!S>6UT8FP@/#T@)THG*0T))B8@<WEM=&)L("\$)("<J)R F
M)B!S>6UT8FP@ (3T@)R\$G*0T@(" @("!S>6UT8FP@/2 G+R<[#2 @("!S>6UB
M;VP@/2!I6S==.PT@(" @:68@*"%I<W!R:6YT*'-Y;6)O;"DI#2 @(" @(' -Y
M;6)O;"]("<D)SL-#6EF("AG;70@ (3T@;FEL*2! [#2 @("!S<')I;G1F*&)U
M9C\$L(B5S.D E,#)D)3 R9"4P,F1Z)60E9"5D)60N)60E9"5C)6,E,#-D)3 R
M9"XE,#)D)6,E8R4P,V00)3 S9\$U)0R]-)600)7,N+BXB+ T@(" @"6AE860L
M#0D@(" @9VUT+3YT;5]M9&%Y+&=M="T^=&U?:&]U<BQG;70M/G1M7VUI;BP-
M"2 @("!T6S!)=C!X,&8L=%LQ728P>#!F+'1; ,ETF, ' @P9BQT6S-=)C!X,&8L
M=%LT728P>#!F+'1; -5TF, ' @P9BP-"2 @("!N;W)T:"QS>6UT8FPL#0D@(" @
M;&]N1\$0L;&]N34TL;&]N2\$@L#0D@(" @=V5S="P-"2 @("!S>6UB;VPL#0D@
M(" @8W-E+' -P9"P-"2 @("!M<V<L;7-G;F%M95MM<V==*3L-"7T-96QS92! [
M#2 @("!S<')I;G1F*&)U9C\$L(B5S.CTE9"5D)60E9"XE9"5D)6,E8R4P,V0E
M,#)D+B4P,F0E8R5C)3 S9"\E,#-D34E#+TTE9"\E<RXN+B(L#0D@(" @:&5A
M9"P-"2 @("!T6S!)=C!X,&8L=%LQ728P>#!F+'1; ,ETF, ' @P9BQT6S-=)C!X
M,&8L=%LT728P>#!F+'1; -5TF, ' @P9BP-"2 @("!N;W)T:"QS>6UT8FPL#0D@
M(" @;&]N1\$0L;&]N34TL;&]N2\$@L#0D@(" @=V5S="P-"2 @("!S>6UB;VPL
M#0D@(" @8W-E+' -P9"P-"2 @("!M<V<L;7-G;F%M95MM<V==*3L-"0T)?0T@
M(" @8G @/2 F8G5F,5MS=')L96XH8G5F,2DM,5T[#2 @("!I9B H;" ^/2 Q
M,2D@>PT@(" @("!S:&]R="!N(#T@*')E=B]/2!"151!*3\X.CD[#2 @(" @
M('5N<VEG;F5D(' -H;W)T(&AE>#)I* '5?8VAA<BQU7V-H87(I.PT@(" @("!S
M=VET8V@&*E;;ETI('L-(" @(" @8V%S92 P>#8P.@T)<W!R:6YT9BAT96QE
M;2PB)7,Z5"--24,E,#-D)3 S9"(L:&5A9"P-"0T)"6AE>#)I*&E;;BLQ72QI
M6VXK,ETI+ T)"6AE>#)I*&E;;BLS72QI6VXK-%TI*3L-"6XK/30[#0EB<F5A
M:SL-(" @(" @8V%S92 P>#(W.@T)<W!R:6YT9BAT96QE;2PB)7,Z5"--24,E
M,#-D)3 S9"4P,V0E,#-D)3 S9"(L:&5A9"P-"0EH97@R:2AI6VXK,5TL:5MN
M*S)=*2P-"0EH97@R:2AI6VXK,UTL:5MN*S1=*2P-"0EH97@R:2AI6VXK-5TL
M:5MN*S9=*2P-"0EH97@R:2AI6VXK-UTL:5MN*SA=*2P-"0EH97@R:2AI6VXK
M.5TL:5MN*S\$P72DI.PT);BL],3 [#0EB<F5A:SL-(" @(" @8V%S92 P>#%D
M.@T)<W!R:6YT9BAT96QE;2PB)7,Z5"--24,E,#-D)3 S9"4P,V0E,#-D)3 S
M9"(L:&5A9"P-"0EI6VXK,5TL:5MN*S)=+&E;;BLS72QI6VXK-%TL:5MN*S5=
M*3L-"6XK/34[#0EB<F5A:SL-(" @(" @9&5F875L=#H-"6)R96%K.PD)"2\J
M(&Y0('1E;&5M971R>2 J+PT@(" @("!)]#2 @(" @(&EF("AN(#P@;"D@>PD)
M+RH@8V]M;65N=' ,08G1E>'0@*B\-"0ES=')C<'DH8G L)FE;;ETI.PT@(" @
M("!)]#2 @("!)]#2 @?0T@(' -P<FEN=&8H=#\$L(B5S(BQB=68Q*3L-"6)P(#T@
M=#\$[#0EW:&EL92 H*F)P("\$)(# I(T)>PT)"6EF("@J8G @/3T@)UQR)RD@
M*F)P(#T@,#L-"0EI9B H*F)P(#T]("<;B<I("IB<"](# [#0D)8G K*SL-
M"7T-("!R971U<FX@=')U93L-?0T-=6YS:6=N960@<VAO<G0@:&5X,FDH=5]C
M:&%R(&\$L=5]C:&%R(&(I#7L-("!S:&]R="!R(#T@,#L-#2 @:68@*&\$@/CT@
M)S G("8F(&\$@/#T@)SDG*2! [#2 @(' (@/2 H82TG,"<I(#P\(#0[#2 @?2!E
M;' -E(&EF("AA(#X]("<!)R F)B!A(#P]("<=&)RD@>PT@("!R(#T@*&\$M)T\$G
M*S\$P*2 \/" T.PT@('T-("!I9B H8B ^/2 G,"<@)B8@8B \ /2 G.2<I('L-
M(" @<B K/2 H8BTG,"<I.PT@('T@96QS92!I9B H8B ^/2 G02<@)B8@8B \
M/2 G1B<I('L-(" @<B K/2 H8BTG02<K,3 I.PT@('T-("!R971U<FX@<CL-

"?0T

end

--Emailer_-1246378499--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 4 00:46:13 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA22528
for <lyris.aprsspec@tapr.org>; Fri, 4 Aug 2000 00:46:11 -0500 (CDT)
Message-Id: <LYR11589-100480-2000.08.04-00.51.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 3 Aug 2000 22:45:17 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] APRS Test Set
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130302b5b0084e08e4@[198.106.196.5]>
<LYR11893-100457-2000.08.04-00.00.33--wagnerj#proaxis.com@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ian did a great job with Mic-E Test Set. Though I am not implementing
internet gateway service or Mic-E tranlating digipeating, it will be used
for general program decoding validation.

Now, PLEASE, lets have a similar set of basic APRS packets!

Jim Wagner

Oregon Research Electronics

wagnerj@proaxis.com

KA7EHK@KC7KFE.OR.USA.NOAM

ka7ehk@yahoo.com

Tangent, Oregon 97389

near Corvallis OR, home of

Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 8 17:35:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA27266
for <lyris.aprsspec@tapr.org>; Tue, 8 Aug 2000 17:35:29 -0500 (CDT)
Message-ID: <LYR11589-101512-2000.08.08-17.40.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-100480-2000.08.04-00.51.08--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: APRS Test Set
Date: Tue, 8 Aug 2000 15:35:42 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00c301c00188\$fe854220\$3f93b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Good idea! When will you have it ready Jim?

>
> Ian did a great job with Mic-E Test Set. Though I am not implementing
> internet gateway service or Mic-E tranlating digipeating, it will be used
> for general program decoding validation.

>
> Now, PLEASE, lets have a similar set of basic APRS packets!
>
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 9 07:51:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA25201
for <lyris.aprsspec@tapr.org>; Wed, 9 Aug 2000 07:51:40 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-101650-2000.08.09-07.57.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 09 Aug 2000 08:55:36 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Reply-To: quesnelb@ve2.ele.etsmtl.ca
Organization: Solution Mind Ready
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Satellite IGATES
Content-Type: multipart/alternative;
boundary="-----47E3409442CE022EBBF8C4DA"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <399154C7.809C085C@ve2.ele.etsmtl.ca>
Precedence: bulk

-----47E3409442CE022EBBF8C4DA

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi to all...

I've been thinking about the problem of the network architecture et the whole duplicate packets that been going on last week. I concur that the problem is real and many connection are probobly made and that could be without.

The idea of central servers should still be there. How many? Good question. I'd say at least 3 which could be fully redundant between them.

The problem of the growing number of IGATES and the idea of managing them all is totally a bad idea. I most give that to Steve. But if the idea of satellite-regional servers be implemented, or a derivative, it may solve the problem....

The idea is quite simple. With small machines (i.e. 486 with low memory), could get data for a certain region and be responsible for that small region (messages, posits and all that good stuff). Those small machine would send to regional servers responsible for few smaller machines.

For access, the smaller machine would not warrent high bandwith, and would just require to be connected to the internet and reach a bigger server. Then the regional servers could connect to the main servers and then these server could be managed. Each responsible of the regional servers would be responsible for their server and region...

Yes this puts more responsibility on more person, but it could be managed more easily. Pin point to a person to rule out the problem, either on his own IGATE to block the traffic from a station or any other way he will suite fit. This could limit the propagation of the feeds....

Yes this involves work but I guess we need to put a bit of control in our network. Not too much so that it becomes a pain but just enough to still make ths way of communication fun.

--

Bruno Quesnel
VA2BMG
Stagiaire - MindReady Solutions
Solutions Mindready Inc.
2196 32ieme Avenue

bruno.quesnel@mindready.com
quesnelb@ve2.ele.etsmtl.ca
tel.: 514-636-6886 ext 5171

quesnelb@ve2.ele.etsmtl.ca
Stagiaire - MindReady Solutions
Solutions Mindready
Inc.
& tel.: 514-636-6886 ext 5171
2196 32ieme Avenue
Lachine (Quebec) H8T 3H7

-----47E3409442CE022EBBF8C4DA--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 10 08:48:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA01661
for <lyris.aprsspec@tapr.org>; Thu, 10 Aug 2000 08:48:25 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 09:35:49 -0400
Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-101900-2000.08.10-08.53.57--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <0008100947150N.10253@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The next release of aprsd will have a couple of minor bug fixes and while I'm tinkering with the code I may as well modify the Mic-E converter so it doesn't have the time stamp. Bob suggested making the first information field character a "=" for Kenwoods because they are message capable and "!" for others. I also propose changing the "E>dsy" field to "Mic-E".

The Mic-E comment field will be passed unchanged.

Examples.

A packet which now converts to:

```
WU2Z-9>APD213,WIDE,WIDE:@092142z4031.28N/07427.74Wv297/000/E>dsy/M0/Off  
duty.. ]"5g}
```

Will look like:

```
WU2Z-9>APD213,WIDE,WIDE:=4031.28N/07427.74Wv297/000/Mic-E/M0/Off duty.. ]"5g}
```

A non-Kenwood packet such as this:

```
KD5AMB>APD213,OKCITY*,WIDE:@092142z3532.83N/09736.94W>000/000/E>dsy/M0/Off duty..  
PIC-E Moble testing mark@grennan.com
```

Becomes:

```
KD5AMB>APD213,OKCITY*,WIDE:!3532.83N/09736.94W>000/000/Mic-E/M0/Off duty.. PIC-E  
Moble testing mark@grennan.com
```

Comments ?

--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 10 12:38:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA07539
for <lyris.aprsspec@tapr.org>; Thu, 10 Aug 2000 12:37:59 -0500 (CDT)
Date: Thu, 10 Aug 2000 10:36:56 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <[LYR12892-101900-2000.08.10-08.53.57--
hacker#tc.fluke.com@lists.tapr.org](mailto:LYR12892-101900-2000.08.10-08.53.57--hacker#tc.fluke.com@lists.tapr.org)>
Message-ID: <[LYR11589-101944-2000.08.10-12.43.14--
lyris.aprsspec#tapr.org@lists.tapr.org](mailto:LYR11589-101944-2000.08.10-12.43.14--lyris.aprsspec#tapr.org@lists.tapr.org)>
Organization: Fluke Corporation

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.10.10008101031470.1672-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 10 Aug 2000, Dale Heatherington wrote:

> The next release of aprsd will have a couple of minor bug fixes and
> while I'm tinkering with the code I may as well modify the Mic-E converter
> so it doesn't have the time stamp. Bob suggested making the first information
> field character a "=" for Kenwoods because they are message capable and
> "!" for others. I also propose changing the "E>dsy" field to "Mic-E".

> A packet which now converts to:
> WU2Z-9>APD213,WIDE,WIDE:@092142z4031.28N/07427.74Wv297/000/E>dsy/M0/Off
duty..]"5g}
>
> Will look like:
> WU2Z-9>APD213,WIDE,WIDE:=4031.28N/07427.74Wv297/000/Mic-E/M0/Off duty..]"5g}

YES! I've had to strip off the timestamps in my dupe-check code
because each MIC-E expander adds it's own local timestamp. Excellent
idea just getting rid of it.

I love the other changes too, except why have the "/Mic-E" part at
all? It's evident to me that it's a MIC-E packet because of the "/M?"
part of the packet.

My personal preference would still be to not have the MIC-E packet
changed in any way by the igates or findu or whatever, but just have
it decoded in the client programs. Since that is probably not
forthcoming, the above changes will certainly improve things a lot.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 10 19:05:16 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA10148
for <lyris.aprsspec@tappr.org>; Thu, 10 Aug 2000 19:05:14 -0500 (CDT)
Message-ID: <LYR11589-102018-2000.08.10-19.10.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-101900-2000.08.10-08.53.57--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 17:05:28 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <00d001c00327\$e4d13e60\$6493b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

What programs do not handle Mic-E?

- 1) APRServe
- 2) others?? FindU??

APRSD handles Mic-E fine. All other client program that I know of handle Mic-E find. If we convert Mic-E to "=" or "!", we break the APRS protocol where by "=" and "!" indicate fixed stations. This is a bad idea...

I propose we eliminate ALL conversions of Mic-E. Changing APRSD does not change winAPRS or macAPRS or APRS+SA or APRServe. Changing only APRSD will only continue to propagate the duplicates. APRSD should never convert a packet it has not heard via RF directly. APRSD handles Mic-E fine. We need to address the programs that do not handle Mic-E, and that is only APRServe, correct? Fix that and the problem goes away. Perhaps, APRSD should be THE program for the Internet system, eliminating all APRServe sites. How many are there? Would a 486 be sufficient to run Linux for APRSD?

More comments?

Brent KH2Z

----- Original Message -----

From: "Dale Heatherington" <dale@wa4dsy.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Sent: Thursday, August 10, 2000 6:35 AM

Subject: [aprsspec] Proposed change to aprsd Mic-E converter

> The next release of aprsd will have a couple of minor bug fixes and
> while I'm tinkering with the code I may as well modify the Mic-E converter
> so it doesn't have the time stamp. Bob suggested making the first
information
> field character a "=" for Kenwoods because they are message capable and
> "!" for others. I also propose changing the "E>dsy" field to "Mic-E".
>
> The Mic-E comment field will be passed unchanged.
>
> Examples.
>
> A packet which now converts to:
> WU2Z-9>APD213,WIDE,WIDE:@092142z4031.28N/07427.74Wv297/000/E>dsy/M0/Off
duty..]"5g}
>
> Will look like:
>
> WU2Z-9>APD213,WIDE,WIDE:=4031.28N/07427.74Wv297/000/Mic-E/M0/Off
duty..]"5g}
>
>
> A non-Kenwood packet such as this:
> KD5AMB>APD213,OKCITY*,WIDE:@092142z3532.83N/09736.94W>000/000/E>dsy/M0/Off
duty.. PIC-E Moble testing mark@grennan.com
>
> Becomes:
> KD5AMB>APD213,OKCITY*,WIDE:!3532.83N/09736.94W>000/000/Mic-E/M0/Off duty..
PIC-E Moble testing mark@grennan.com
>
> Comments ?
>
> --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page <http://www.wa4dsy.net>
> Sent by KMail for Linux

>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 10 19:57:37 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA17034
for <lyris.aprsspec@tappr.org>; Thu, 10 Aug 2000 19:57:33 -0500 (CDT)
Message-Id: <LYR11589-102024-2000.08.10-20.03.13--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 20:57:07 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200008110056.UAA27259@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 8/10/00 8:05 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>What programs do not handle Mic-E?
>1) APRServe

APRServe handles Mic-E fine, though as Ian pointed out there are some things that could be improved with the conversion. If and when a standard is agreed to, and is implemented in aprsd I'll port Dale's procedure over, but this only affects things heard on RF, in the Socal and Milwaukee areas.

Perhaps you have not noticed the dozen or more times I've addressed this issue, but APRServe is transparent to the non-printing characters used in the Mic-E. When the problem first surfaced, I took the blame for it, which turned out to be a mistake. The problem is in the clients (including my Mac-based test program...the cause of my misperception of guilt), not in APRServe, however despite the many times I've said this on the SIG, the perception still seems to be that APRServe is dropping the chars. However, when it is tested from a Linux client, the characters pass through fine.

Please, I've said this over and over, since I have found out it really isn't my fault. Can we put this urban myth to rest? Please???

>2) others?? FindU??

>

True, because it hears the data directly from aprsd, which converts all Mic-E packets, I didn't write code that would never be used.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 10 20:06:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA18198
for <lyris.aprsspec@tapr.org>; Thu, 10 Aug 2000 20:06:04 -0500 (CDT)
Message-ID: <LYR11589-102027-2000.08.10-20.11.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <200008110056.UAA27259@raptor.netrox.net>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 18:05:31 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <012201c00330\$57dd2c40\$6493b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I guess I have been asleep, I was still believing what you had said about APRServe in the past. No, I have not noticed dozens of times you said APRServe was not at fault. If APRServe and APRSD handle Mic-E correctly, then FIX the client programs that do not decode it correctly. Lets eliminate conversion of Mic-E everywhere. Converting them to "=" or "!" violates the APRS protocol.

Yes, lets change APRSD's method of converting Mic-E packets - eliminate the conversion.

Brent KH2Z

> On 8/10/00 8:05 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >What programs do not handle Mic-E?
> >1) APRServe
>
> APRServe handles Mic-E fine, though as Ian pointed out there are some
> things that could be improved with the conversion. If and when a standard
> is agreed to, and is implemented in aprsd I'll port Dale's procedure
> over, but this only affects things heard on RF, in the Socal and
> Milwaukee areas.
>
> Perhaps you have not noticed the dozen or more times I've addressed this
> issue, but APRServe is transparent to the non-printing characters used in
> the Mic-E. When the problem first surfaced, I took the blame for it,
> which turned out to be a mistake. The problem is in the clients
> (including my Mac-based test program...the cause of my misperception of
> guilt), not in APRServe, however despite the many times I've said this on
> the SIG, the perception still seems to be that APRServe is dropping the
> chars. However, when it is tested from a Linux client, the characters
> pass through fine.
>
> Please, I've said this over and over, since I have found out it really
> isn't my fault. Can we put this urban myth to rest? Please???
>
> >2) others?? FindU??
> >
> True, because it hears the data directly from aprsd, which converts all

> Mic-E packets, I didn't write code that would never be used.
>
> Steve K4HG
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 10 20:09:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA18674
for <lyris.aprsspec@tapr.org>; Thu, 10 Aug 2000 20:09:28 -0500 (CDT)
Message-Id: <LYR11589-102028-2000.08.10-20.15.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 21:09:12 -0400
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200008110108.VAA28565@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/10/00 9:05 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>I guess I have been asleep, I was still believing what you had said about
>APRServe in the past. No, I have not noticed dozens of times you said
>APRServe was not at fault. If APRServe and APRSD handle Mic-E correctly,
>then FIX the client programs that do not decode it correctly.

It is not a decoding problem, but a communication problem. The
non-printing chars are lost before they get to APRServe.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 10 20:26:04 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA20811
for <lyris.aprsspec@tappr.org>; Thu, 10 Aug 2000 20:25:59 -0500 (CDT)
Message-ID: <LYR11589-102033-2000.08.10-20.31.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-102028-2000.08.10-20.15.09--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 18:25:24 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <013401c00333\$12f47540\$6493b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The point is, it is a Client problem, not APRServe/APRSD. Fix the clients.
Eliminate the conversion of Mic-E.

Brent

> On 8/10/00 9:05 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >I guess I have been asleep, I was still believing what you had said about
> >APRServe in the past. No, I have not noticed dozens of times you said
> >APRServe was not at fault. If APRServe and APRSD handle Mic-E
correctly,
> >then FIX the client programs that do not decode it correctly.
>

> It is not a decoding problem, but a communication problem. The
> non-printing chars are lost before they get to APRServe.
>
> Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 10 20:31:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA21972
for <lyris.aprsspec@tapr.org>; Thu, 10 Aug 2000 20:31:55 -0500 (CDT)
Message-ID: <LYR11589-102034-2000.08.10-20.37.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Thu, 10 Aug 2000 20:31:32 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C00309.FC890100.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ok, eliminate the conversions, AND fix the communications problems. If an application strips the non-printing characters after the conversions are eliminated, those applications won't be a problem for long.

Lets do as Brent suggests and stick with the spec. Creating ad-hoc fixes to the protocol is a recipe for disaster. That is how we ending up with the Mic-E duplicate mess to begin with. We still do not have a WRITTEN spec for conversions anyhow.

Bill KC9XG

On Thursday, August 10, 2000 8:09 PM, Steve Dimse [SMTP:sdimse@netrox.net] wrote:
> On 8/10/00 9:05 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >I guess I have been asleep, I was still believing what you had said about
> >APRServe in the past. No, I have not noticed dozens of times you said
> >APRServe was not at fault. If APRServe and APRSD handle Mic-E correctly,
> >then FIX the client programs that do not decode it correctly.
>
> It is not a decoding problem, but a communication problem. The
> non-printing chars are lost before they get to APRServe.
>
> Steve K4HG
>
> ---
> You are currently subscribed to aprsspec as: billldiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 11 07:08:02 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA20177
for <lyris.aprsspec@tappr.org>; Fri, 11 Aug 2000 07:08:00 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 11 Aug 2000 07:57:56 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <LYR11586-101944-2000.08.10-12.43.14--
bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-102092-2000.08.11-07.13.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10008110737430.3363-1000000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 10 Aug 2000, Curt Mills, WE7U wrote about Mic-E conversions

> I love the other changes too, except why have the "/Mic-E" part?

That field is my preference, because in APRSdos, I use that field to display the following four types of packets differently...

WU2Z-9>APD213,WIDE,WIDE:!4031.28N/07427.74Wv297/000/Mic-E/M0/Off duty..
WU2Z-9>APD213,WIDE,WIDE:=4031.28N/07427.74Wv297/000/TH-D7/M0/Off duty..
WU2Z-9>APD213,WIDE,WIDE:=4031.28N/07427.74Wv297/000/D-700/M0/Off duty..

I would prefer that Dale's conversion also do these insertions so that we can see what kind of station the guy is. It makes a difference as to whether you can send him a message or not...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 07:51:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA24659
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 07:51:19 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 11 Aug 2000 08:51:03 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <LYR11586-102018-2000.08.10-19.10.57--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-102093-2000.08.11-07.57.01--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10008110844360.3363-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 10 Aug 2000, Brent Hildebrand wrote:

> APRSD handles Mic-E fine. All other client program that I know of handle
> Mic-E find. If we convert Mic-E to "=" or "!", we break the APRS protocol
> where by "=" and "!" indicate fixed stations. This is a bad idea...

No, there should be no such association. "=" and "!" formats have always been for Position Reports *without* a time stamp. Although this has been usually applied to non-moving fixed stations, this is not the definition of the format. Yes, we even called it "fixed" stations, but that was a label of convenience, not a label of function...

These two formats were introduced in the 1996 time frame to avoid the problems with unsynchronized PC clock's for positions in which the exact time is not important. The Mic-E originates without a time stamp, so this is why we think conversion to the "=" and "!" timeless formats (if needed) is the way to go.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 09:12:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA07107
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 09:12:22 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Fri, 11 Aug 2000 10:03:12 -0400
Content-Type: text/plain
References: <200008110056.UAA27259@raptor.netrox.net>
<LYR18156-102027-2000.08.10-20.11.35--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-102027-2000.08.10-20.11.35--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-102108-2000.08.11-09.17.33--

lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00081110105000.00710@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 10 Aug 2000, Brent Hildebrand wrote:

> Yes, lets change APRSD's method of converting Mic-E packets - eliminate the
> conversion.
>
> Brent KH2Z

I'd sure like to do that if the side effects aren't too severe.

Regardless of whether the packets are conveted or not, the timestamps
on Mic-E will be gone. What about the aprsd history dump? Users logging
onto port 10151 will get n minutes of history including these old non-time stamped
packets. Any potential problems there?

--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 09:43:16 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA09721
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 09:43:14 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 11 Aug 2000 10:42:20 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] SPEC NWS Warnings.
In-Reply-To: <LYR11586-100193-2000.08.03-03.26.34--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-102117-2000.08.11-09.48.48--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10008111026370.3363-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Allan has raised an issue by implying that the NWS WARNING messages used as an EXAMPLE in the SPEC are an affront to the INTERNATIONAL flavor of APRS. In looking at the spec, the causal reader might infer that it is another APRS FORMAT that is unique to the USA.

THIS IS NOT THE CASE. The NWS format is not a special format and is just an example of the use of the STANDARD APRS MESSAGE for a special application. But this is not obvious to the uninformed reader.

Therefore to avoid such continuing criticism of the spec, I would suggest that the NWS WARNING PARAGRAPH be re-worded as follows:

NATIONAL WEATHER SERVICE BULLETINS:

Standard APRS message formats can be used for a variety of other applications. For example, in the USA, special formatted messages addressed to the generic callsign of NWS-XXXX are used to color highlight map areas involved in weather warnings using the following format....

This clarifies that this is NOT another unique format, but is simply another message. By including it as an example, we are showing how the APRS MESSAGE protocol is NON-RESTRICTIVE and has INFINITE EXPANSION capabilities for other applications.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 11:12:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA22771
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 11:12:26 -0500 (CDT)
Date: Fri, 11 Aug 2000 09:12:02 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <LYR12892-102027-2000.08.10-20.11.35--
hacker@tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-102132-2000.08.11-11.18.07--
lyris.aprsspec@tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10008110856120.1672-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 10 Aug 2000, Brent Hildebrand wrote:

> Yes, lets change APRSD's method of converting Mic-E packets - eliminate the
> conversion.

Yes please! This is the RIGHT way to do things. The others are
just patches. 8-bit transparent networking code is not particularly
hard to write these days.

Let's also fix the client programs so that they set:

```
afilter off  
mfilter 0
```

for AEA TNC's while we're at it, so we can get those non-printable
characters passed through those TNC's. That'll fix a few of the
clients that are running older TNC's (like me!).

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 11:32:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA25558
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 11:32:16 -0500 (CDT)
Date: Fri, 11 Aug 2000 09:31:36 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <LYR12892-102108-2000.08.11-09.17.33--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-102137-2000.08.11-11.37.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.10.10008110913010.1672-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Dale Heatherington wrote:

> I'd sure like to do that if the side effects aren't too severe.
>
> Regardless of whether the packets are conveted or not, the timestamps
> on Mic-E will be gone. What about the aprsd history dump? Users logging
> onto port 10151 will get n minutes of history including these old non-time
> stamped
> packets. Any potential problems there?

That should be easily fixed too with a bit of code (isn't it always "just a bit more code"?):

For your history queue, add a time stamp in some format that is unique to you and easy for the C++ code to recognize/strip off again. It can be stripped off as the packet is being sent to a client, but used internally to aprsd to expire the data out of the queue.

I don't implement the 30-second history, but here's how I'm doing the 30-second dupe-check queue: I use a reduced form of the packet itself as the hash key (removed digi's, removed timestamps, removed white space). I store seconds-since-Unix-epoch as the value of the hash entry. With this method I save the time that -I- received the packet as the timestamp (ignoring the timestamp in the packet itself), and keep it as a separate variable from the packet data. So far this has worked well. It doesn't matter whether the packet has a timestamp or not as I'm generating and keeping my own timestamps internally. An added feature of this is the varying timestamps in MIC-E expansions don't affect my dupe-checking. I can treat the hash as a circular queue to expire old data, or treat it as a hash to find out if I just received a duplicate. In my code I do both.

Let's keep this idea of fixing the clients going, and if we don't have to base-64 encode the stuff either, everybody wins all the way around.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 11:39:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26098
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 11:39:34 -0500 (CDT)
Date: Fri, 11 Aug 2000 09:39:20 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <200008111633.QAA03492@www.findu.com>
Message-ID: <LYR11589-102141-2000.08.11-11.45.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.10.10008110936020.1672-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Steve Dimse K4HG wrote:

> Before this happens a few things ought to occur. First, someone needs to
> test all the client programs to determine which ones need to be updated.
> Then those programs must be updated, and those new versions widely
> distributed.
>
> To eliminate the conversions before this is done would result is a large
> number of erroneous positions on the internet feed, a situation far worse
> than that we have today.

And pressure would be exerted on the authors to update their programs.
Could be a bad thing overall, could be a good thing. It would hurt
temporarily until it was healed though.

> Who wants to volunteer to test all the client programs?

Perhaps the authors of the individual programs and their individual
groups of beta-testers?

I'll help test and fix Xastir if it needs it. I think that's the
only client source code I have access to and care to run.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 11 11:45:53 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27046
for <lyris.aprsspec@tappr.org>; Fri, 11 Aug 2000 11:45:51 -0500 (CDT)
Message-Id: <LYR11589-102143-2000.08.11-11.51.35--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Fri, 11 Aug 2000 12:45:39 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <200008111645.QAA03810@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 8/11/00 12:31 PM Curt Mills, WE7U (hacker@tc.fluke.com) wrote:

>That should be easily fixed too with a bit of code (isn't it always
>"just a bit more code"?):

>

>For your history queue, add a time stamp in some format that is
>unique to you and easy for the C++ code to recognize/strip off
>again. It can be stripped off as the packet is being sent to a
>client, but used internally to aprsd to expire the data out of the
>queue.

>

I think you misread Dale's question. He does not use it, he uses his own
time field. The question was how would this affect the clients? My guess
is not at all, the timestamps on APRS packets are worthless because of
all the troubles with people incorrectly setting their clocks.

findu totally ignores them, using only the time received.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 11 11:46:37 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27830
for <lyris.aprsspec@tappr.org>; Fri, 11 Aug 2000 11:46:35 -0500 (CDT)
Message-Id: <LYR11589-102144-2000.08.11-11.51.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Fri, 11 Aug 2000 12:45:45 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <200008111645.QAA03815@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 8/11/00 12:12 PM Curt Mills, WE7U (hacker@tc.fluke.com) wrote:

>> Yes, lets change APRSD's method of converting Mic-E packets - eliminate the
>> conversion.

>

>Yes please! This is the RIGHT way to do things. The others are
>just patches. 8-bit transparent networking code is not particularly
>hard to write these days.

>

Before this happens a few things ought to occur. First, someone needs to
test all the client programs to determine which ones need to be updated.
Then those programs must be updated, and those new versions widely
distributed.

To eliminate the conversions before this is done would result is a large
number of erroneous positions on the internet feed, a situation far worse
than that we have today.

Who wants to volunteer to test all the client programs?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 11:47:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA28225
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 11:47:25 -0500 (CDT)
Date: Fri, 11 Aug 2000 09:47:01 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <200008111638.QAA03649@www.findu.com>
Message-ID: <LYR11589-102145-2000.08.11-11.53.06--
lyris.aprsspec@tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.10.10008110941450.1672-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Steve Dimse K4HG wrote:

> I think you misread Dale's question. He does not use it, he uses his own
> time field. The question was how would this affect the clients? My guess
> is not at all, the timestamps on APRS packets are worthless because of
> all the troubles with people incorrectly setting their clocks.

Are you sure? Here's what Dale wrote again:

> Regardless of whether the packets are conveted or not, the timestamps
> on Mic-E will be gone. What about the aprsd history dump? Users logging
> onto port 10151 will get n minutes of history including these old non-time
> stamped
> packets. Any potential problems there?

He specifically mentioned port 10151, which has a 30-second history
queue normally. Port 10152 does not, it's live data only.

Since he wouldn't be expanding the MIC-E to have a timestamp, it sounds from the above that he would have old MIC-E packets hanging around in his history queue forever (not getting expired out). They would be downloaded to the client program when they connect.

That's why I went into the speil about how my dupe-check queue worked.

Did I understand you correctly Dale? If not, I need to get more of this diet pepsi into the bloodstream this morning.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 12:20:45 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA03283
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 12:20:43 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Fri, 11 Aug 2000 13:14:43 -0400
Content-Type: text/plain
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
References: <Pine.GS0.4.10.10008110941450.1672-1000000@dogbert.tc.fluke.com>
In-Reply-To: <Pine.GS0.4.10.10008110941450.1672-1000000@dogbert.tc.fluke.com>
MIME-Version: 1.0
Message-Id: <LYR11589-102149-2000.08.11-12.26.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <00081113201902.00710@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve is correct. All the history packets are timestamped with both unix time and a (now redundant) time to live value. Also, the latest version of aprsd uses a completely separate method to do dup checking. I was indeed concerned about user programs getting old, untimestamped Mic-E data from the history buffer when they log on. Some aprsd operators set the history expire time to as much as 8 hours.

On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:

> On Fri, 11 Aug 2000, Steve Dimse K4HG wrote:

>

> > I think you misread Dale's question. He does not use it, he uses his own
> > time field. The question was how would this affect the clients? My guess
> > is not at all, the timestamps on APRS packets are worthless because of
> > all the troubles with people incorrectly setting their clocks.

>

>

> Are you sure? Here's what Dale wrote again:

>

> > Regardless of whether the packets are converted or not, the timestamps
> > on Mic-E will be gone. What about the aprsd history dump? Users logging
> > onto port 10151 will get n minutes of history including these old non-time
stamped

> > packets. Any potential problems there?

>

> He specifically mentioned port 10151, which has a 30-second history
> queue normally. Port 10152 does not, it's live data only.

>

> Since he wouldn't be expanding the MIC-E to have a timestamp, it
> sounds from the above that he would have old MIC-E packets hanging
> around in his history queue forever (not getting expired out). They
> would be downloaded to the client program when they connect.

>

> That's why I went into the spiel about how my dupe-check queue worked.

>

> Did I understand you correctly Dale? If not, I need to get more of
> this diet pepsi into the bloodstream this morning.

>

> Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

> Senior Methods Engineer/SysAdmin

> "Lotto: A tax on people who are bad at math." -- unknown

> "Windows: Microsoft's tax on computer illiterates." -- WE7U

--

Dale Heatherington

dale@wa4dsy.net

Web Page <http://www.wa4dsy.net>

Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 12:32:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04038
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 12:32:17 -0500 (CDT)
Date: Fri, 11 Aug 2000 10:31:56 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Steve Dimse K4HG <sdimse@bridge.net>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <00081113201902.00710@lab1>
Message-ID: <LYR11589-102151-2000.08.11-12.37.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10008111026030.1672-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Dale Heatherington wrote:

> Steve is correct. All the history packets are timestamped with both
> unix time and a (now redundant) time to live value. Also, the latest version of
aprsd
> uses a completely separate method to do dup checking. I was indeed
> concerned about user programs getting old, untimestamped Mic-E data from the
> history buffer when they log on. Some aprsd operators set the history expire
> time to as much as 8 hours.
>
> On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:
> >
> > Are you sure? Here's what Dale wrote again:
> >
> > > Regardless of whether the packets are converted or not, the timestamps

> > > on Mic-E will be gone. What about the aprsd history dump? Users logging
> > > onto port 10151 will get n minutes of history including these old non-time
stamped
> > > packets. Any potential problems there?

So where's the problem? If you're time-stamping everything in the history with unix time, everthing gets expired from the history queue properly in any case. Aprsd is already written correctly and would require no tweaks other than getting rid of the MIC-E expansion.

If users are connecting up to an internet server on a port that provides history, they should know by now that the client program aging of packets might not be correct. Xastir already works that way I think. It ages the icons based on when it received them, not based on their timestamps. Perhaps the other client programs actually check the timestamp? If so, then I see where my confusion comes from.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 13:54:39 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA24258
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 13:54:39 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
Date: Fri, 11 Aug 2000 14:47:23 -0400
Content-Type: text/plain
Cc: Steve Dimse K4HG <sdimse@bridge.net>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
References: <LYR18156-102151-2000.08.11-12.37.59--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-102151-2000.08.11-12.37.59--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-102164-2000.08.11-14.00.19--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00081114541005.00710@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:

> On Fri, 11 Aug 2000, Dale Heatherington wrote:

>

> > Steve is correct. All the history packets are timestamped with both
> > unix time and a (now redundant) time to live value. Also, the latest version
of aprsd

> > uses a completely separate method to do dup checking. I was indeed
> > concerned about user programs getting old, untimestamped Mic-E data from the
> > history buffer when they log on. Some aprsd operators set the history expire
> > time to as much as 8 hours.

> >

> > On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:

> > >

> > > Are you sure? Here's what Dale wrote again:

> > >

> > > > Regardless of whether the packets are converted or not, the timestamps
> > > > on Mic-E will be gone. What about the aprsd history dump? Users logging
> > > > onto port 10151 will get n minutes of history including these old non-time
stamped

> > > > packets. Any potential problems there?

>

> So where's the problem? If you're time-stamping everything in the
> history with unix time, everything gets expired from the history queue
> properly in any case. Aprsd is already written correctly and would
> require no tweaks other than getting rid of the MIC-E expansion.

Hopefully there are no problems or side effects.

This is almost never the case in the real world however.

I asked the question to see if anyone could come up with potential
pitfalls.

Here's another question: When an unconverted Mic-E pkt is gated from internet to
RF as

a 3rd party reformatted packet, will the client software properly extract the
posit data from the ax25 destination field ?

--

Dale Heatherington
dale@wa4dsy.net

Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 15:06:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA04531
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 15:06:17 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 11 Aug 2000 16:06:01 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
Steve Dimse K4HG <sdimse@bridge.net>
Subject: [aprsspec] Re: Proposed change to aprsd Mic-E converter
In-Reply-To: <LYR11586-102164-2000.08.11-14.00.19--bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-102174-2000.08.11-15.12.01--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10008111605150.4958-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Dale Heatherington wrote:

> Here's another question: When an unconverted Mic-E pkt is gated from internet to
RF as
> a 3rd party reformatted packet, will the client software properly extract the
> posit data from the ax25 destination field ?

APRSdos will. The 3rd party format is totally recursive in APRSdos
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 15:14:52 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA05906
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 15:14:47 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] proposed change aprsd Mic-E converter
Date: Fri, 11 Aug 2000 15:56:02 -0400
Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-102175-2000.08.11-15.20.31--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00081116143406.00710@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To convert or not convert, that is the question.

It turned out to be trivial to put in a new keyword in aprsd.conf.
ConvertMicE yes | no
The actual code to select convert or not was also trivial.

Now the I need to decide if the default should be "yes" or "no"
if "ConvertMicE" does not appear in the config file.

The 3rd party reformatting also seems to work.

Original packets:

```
WA4DSY>0000P0:`vX      >/      (0x1c)
WA4DSY>675900:`012345>/
WA4DSY>PPQRST:`012345>/
```

ConvertMicE no

Sending to TNC: {WA4DSY>0000P0,TCPIP*,WA4DSY-1*:`vX >/ (0x1c)
Sending to TNC: {WA4DSY>675900,TCPIP*,WA4DSY-1*:`012345>/
Sending to TNC: {WA4DSY>PPQRST,TCPIP*,WA4DSY-1*:`012345>/

ConvertMicE yes

Sending to TNC: {WA4DSY>APD214,TCPIP*,WA4DSY-1*:!0000.00S/00000.00E>004/040/Mic-E/
M7/EMERGENCY. (0x1c)
Sending to TNC: {WA4DSY>APD214,TCPIP*,WA4DSY-1*:!6759.00S/02021.22E>025/232/Mic-E/
M7/EMERGENCY.
Sending to TNC: {WA4DSY>APD214,TCPIP*,WA4DSY-1*:!0012.34N/12021.22W>025/232/Mic-E/
M0/Off duty..

--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 17:00:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25870
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 17:00:18 -0500 (CDT)
Date: Fri, 11 Aug 2000 14:59:08 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Spec Error?
In-Reply-To: <LYR12892-102175-2000.08.11-15.20.31--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-102194-2000.08.11-17.05.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GS0.4.10.10008111457120.1672-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Looking at the last APRS spec that I downloaded, the example for a compressed object is not correct per the text. The example has no time field, but the text says it is required. Hopefully someone else has caught this before now.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 11 22:44:18 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA15267
for <lyris.aprsspec@tappr.org>; Fri, 11 Aug 2000 22:44:15 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 11 Aug 2000 23:43:25 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Spec Error?
In-Reply-To: <LYR11586-102194-2000.08.11-17.05.07--bruninga#nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-102242-2000.08.11-22.49.56--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10008112342160.15000-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:

> Looking at the last APRS spec that I downloaded, the example for
> a compressed object is not correct per the text. The example
> has no time field, but the text says it is required. Hopefully
> someone else has caught this before now.

The compressed format only covers the LAT/LONG and CST fields 'wherever'
they occur. Thus they can be with or without time fields.

Bob

>
> Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
> Senior Methods Engineer/SysAdmin
> "Lotto: A tax on people who are bad at math." -- unknown
> "Windows: Microsoft's tax on computer illiterates." -- WE7U
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
>

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 11 23:58:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA26122
for <lyris.aprsspec@tapr.org>; Fri, 11 Aug 2000 23:58:53 -0500 (CDT)
From: archer@eskimo.com
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs
Date: Fri, 11 Aug 2000 22:02:08 -0700 (PDT)

X-Sender: archer@gatekeeper.we7u.net
Reply-To: "Mills, Curt, WE7U" <BowHunter@mail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Spec Error?
In-Reply-To: <LYR12893-102242-2000.08.11-22.49.56--we7u#mail.com@lists.tapr.org>
Message-ID: <LYR11589-102265-2000.08.12-00.04.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.04.10008112159550.2221-100000@gatekeeper.we7u.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 11 Aug 2000, Bob Bruninga wrote:

> On Fri, 11 Aug 2000, Curt Mills, WE7U wrote:
>
> > Looking at the last APRS spec that I downloaded, the example for
> > a compressed object is not correct per the text. The example
> > has no time field, but the text says it is required. Hopefully
> > someone else has caught this before now.
>
> The compressed format only covers the LAT/LONG and CST fields 'wherever'
> they occur. Thus they can be with or without time fields.

Don't discount this so quickly Bob! Read the spec for "Objects" using the compressed lat/lon. The "Object" text specifies that a timestamp is REQUIRED. The example in the table shows an object WITHOUT a timestamp. Either the text or the example is incorrect. Not a big deal, but it IS incorrect.

Curt, WE7U. BowHunter@mail.com
<http://www.eskimo.com/~archer>
Lotto: A tax on people who are bad at math. - unknown
Windows: Microsoft's tax on computer illiterates. - WE7U.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 12 21:20:51 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA15894
for <lyris.aprsspec@tappr.org>; Sat, 12 Aug 2000 21:20:50 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 12 Aug 2000 22:19:44 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Spec Error?
In-Reply-To: <Pine.LNX.4.04.10008112159550.2221-1000000@gatekeeper.we7u.net>
Message-ID: <LYR11589-102369-2000.08.12-21.26.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10008122218360.432-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 11 Aug 2000 archer@eskimo.com wrote:

> > The compressed format only covers the LAT/LONG and CST fields 'wherever'
> > they occur. Thus they can be with or without time fields.
>
> Don't discount this so quickly Bob! Read the spec for "Objects" using
> the compressed lat/lon. The "Object" text specifies that a timestamp
> is REQUIRED. The example in the table shows an object WITHOUT a
> timestamp. Either the text or the example is incorrect. Not a big
> deal, but it IS incorrect.

Thanks! Yes, the OBJECT format does require a time stamp. So I agree,
th eexample is bad...

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 19 15:32:08 2000

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id PAA29393
for <lyris.aprsspec@tapir.org>; Sat, 19 Aug 2000 15:32:07 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 16:24:17 -0400
Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-103654-2000.08.19-15.37.58--
lyris.aprsspec@lists.tapir.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <00081916313202.00715@lab1>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

A new version of aprsd is available at:
<http://www.wa4dsy.net/Files/aprsd214.tar.gz>

The doc file can be viewed at:
<http://www.wa4dsy.net/aprs/aprsdDOC.html>

The most notable change is the server defaults to NOT converting
Mic-E packets to classic APRS format. The Sysop can elect to convert
if he needs to.

Here is a list of the changes:

REVISIONS

2.1.4

- 1) Fixed DeleteSession() so it can't delete if port number is -1
and made ConnectedClients a signed integer. Hopefully this will
prevent errors in the user count.
- 2) The dup detector now ignores trailing spaces
- 3) Put Location info on the html status page
- 4) Deal with mic-e timestamps as per this email from Bob on Aug 3 2000.

"We should not have included the timestamp when the conversion was done by an IGate just for the reasons that we dropped the time stamp in all other stations back in 1996.

It was a mistake and we should fix it by simply replacing the "@DDHHMMz" portion of the conversion with a "!" for TAPR Mic-E's and to a "=" format for Message capable Mic-E's (Kenwoods). This would eliminate this nuisance immediately. "

5) Fixed bug in HUB connection logic that caused it to advance by two instead of one

after attempting to connect to a hub that was down. If only 2 hubs were defined

it would always retry the same dead hub over and over.

6) Added command "LogAllRF" to aprsd.conf. When set to "yes" all packets heard from the TNC

will be written to /aprsd2/rf.log instead of only packets with our call sign as was the case.

7) Added keyword "ConvertMicE yes | no" to aprsd.conf file. If this is set to "yes"

Mic-E packets will be converted to classic APRS packets, otherwise they will pass

through unchanged. Default is "no" .

8) Cleaned up some code in history.cpp: createHistoryArray(aprsString* hp) so it now

aborts a history dump if memory allocation fails. The original code ignored a malloc failure.

--

Dale Heatherington

dale@wa4dsy.net

Web Page <http://www.wa4dsy.net>

Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 15:45:11 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00660
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 15:45:03 -0500 (CDT)
Message-ID: <LYR11589-103658-2000.08.19-15.51.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-103654-2000.08.19-15.37.58--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 13:44:38 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <018001c00a1e\$4b7920e0\$1695b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA00660

I applaud the step in making Mic-E conversion optional; I feel it should be eliminated. I think it is wrong to change the conversion of Mic-E to type "=". It has long been stated that type "=" is a fixed station type, and I strongly feel it should be still considered a fixed station type with computer. Mobile computers are of type "@" and the timestamp is acquired from a GPS receiver and thus provides very good accuracy for the timestamp. Fixed computers do not move, do not need to have a GPS receiver and should have a way to indicate this. Calling "=" type packets not fixed is protocol revisionism, and is now being applied Mic-E converted packets. It has been clearly stated in the past the "=" was for fixed stations. By having APRSD convert Mic-E to "=" will only compound the conversion problems because this does not change the way APRS+SA or WinAPRS or other client program converts the packets. Fortunately, the default is to not convert them.

Final side note, APRSD appears to be 8-bit data compatible, APRServe is 7-bit. Both do appear however to handle Mic-E data OK.

Brent KH2Z

----- Original Message -----

From: Dale Heatherington <dale@wa4dsy.net>

To: APRS Spec Discussion List <aprsspec@lists.tapir.org>

Sent: Saturday, August 19, 2000 1:24 PM

Subject: [aprsspec] NEW! aprsd 2.1.4 available

> A new version of aprsd is available at:

> <http://www.wa4dsy.net/Files/aprsd214.tar.gz>

>

> The doc file can be viewed at:

> <http://www.wa4dsy.net/aprs/aprsdDOC.html>

>

> The most notable change is the server defaults to NOT converting

> Mic-E packets to classic APRS format. The Sysop can elect to convert

> if he needs to.

>

> Here is a list of the changes:

>

> -----

> REVISIONS

>

> 2.1.4

>

>

> 1) Fixed DeleteSession() so it can't delete if port number is -1

> and made ConnectedClients a signed integer. Hopefully this will

> prevent errors in the user count.

>

> 2) The dup detector now ignores trailing spaces

>

> 3) Put Location info on the html status page

>

> 4) Deal with mic-e timestamps as per this email from Bob on Aug 3 2000.

>

> "We should not have included the timestamp when the conversion was done by
> an IGate just for the reasons that we dropped the time stamp in all other
> stations back in 1996.

>

> It was a mistake and we should fix it by simply replacing the "@DDHHMMz"

> portion of the conversion with a "!" for TAPR Mic-E's and to a "="

> format for Message capable Mic-E's (Kenwoods). This would eliminate this
> nuisance immediately. "

>

>

> 5) Fixed bug in HUB connection logic that caused it to advance by two instead of
one

> after attempting to connect to a hub that was down. If only 2 hubs were defined
> it would always retry the same dead hub over and over.
>
> 6) Added command "LogAllRF" to aprsd.conf. When set to "yes" all packets heard from the TNC
> will be written to /aprsd2/rf.log instead of only packets with our call sign as was the case.
>
>
> 7) Added keyword "ConvertMicE yes | no" to aprsd.conf file. If this is set to "yes"
> Mic-E packets will be converted to classic APRS packets, otherwise they will pass
> through unchanged. Default is "no" .
>
> 8) Cleaned up some code in history.cpp: createHistoryArray(aprsString* hp) so it now
> aborts a history dump if memory allocation fails. The original code ignored a malloc failure.
>
>
> --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page <http://www.wa4dsy.net>
> Sent by KMail for Linux
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 19 16:05:04 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA02779
for <lyris.aprsspec@tappr.org>; Sat, 19 Aug 2000 16:05:03 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sat, 19 Aug 2000 17:03:10 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
In-Reply-To: <LYR11586-103658-2000.08.19-15.51.08--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-103660-2000.08.19-16.11.07--lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10008191647350.23673-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 19 Aug 2000, Brent Hildebrand wrote:

> I think it is wrong to change the conversion of Mic-E to type "=". It
> has long been stated that type "=" is a fixed station type, and I
> strongly feel it should be still considered a fixed station type with
> computer.

APRS format *type* characters (!/=) do *not* specify types of stations,
they specify ONLY the *format* of the packet. The "=" *type* simply means
a format without a TIME STAMP. It has nothing to do with the type of
station and it never did.

> Mobile computers are of type "@" and the timestamp is acquired from a
> GPS receiver and thus provides very good accuracy for the timestamp.

Sorry, you got it backwards. Mobiles use the "@" format because they are
going to include the time stamp, not because they are mobiles.

> Fixed computers do not move, do not need to have a GPS receiver and
> should have a way to indicate this. Calling "=" type packets not fixed
> is protocol revisionism, and is now being applied to Mic-E converted
> packets. It has been clearly stated in the past the "=" was for fixed
> stations.

I am sorry, but nothing has been revised, only you are now finding out
that your "interpretation" must have been wrong all along. The "=" format
was always defined to be a *format identifier* for a position report

without a time stamp. It had nothing to do with the type of station. I am sorry if you missinterpreted it.

This "=" format happened to be very appropriate and was used for FIXED stations where the time stamp was usually useless... but the *type* of packet never "defined" a *type* of station. Yes, we all agreed that it made sense for FIXED stations to use this format, but not the reverse.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 16:14:22 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04150
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 16:14:18 -0500 (CDT)
Message-Id: <LYR11589-103662-2000.08.19-16.20.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 17:13:52 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200008192113.VAA24278@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/19/00 4:44 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>I applaud the step in making Mic-E conversion optional; I feel it should

APRServe will continue to do it, and www.aprs.net will have the aprsd option turned on. Regardless of what may be "pure", the reality is there are clients that are not able to handle the data. I feel that backwards compatability is important, and until all versions of the program have

been verified to be able to send and receive the Mic-E data, I will continue to do the conversion at the network level.

This would be a nice task for an individual to take on, to test each version against the Mic-E data...

>be eliminated. I think it is wrong to change the conversion of Mic-E to
>type "=". It has long been stated that type "=" is a fixed station type,
>and I strongly feel it should be still considered a fixed station type
>with computer. Mobile computers are of type "@" and the timestamp is
>acquired from a GPS receiver and thus provides very good accuracy for the
>timestamp. Fixed computers do not move, do not need to have a GPS

My recollection is the same as Bob's on this point. I do not recall the difference ever being defined as fixed vs. mobile, only timestamp vs no timestamp.

>Final side note, APRSD appears to be 8-bit data compatible, APRServe is
>7-bit. Both do appear however to handle Mic-E data OK.

>

Nice to have independent confirmation, perhaps this will put the persistant rumors that it is APRServe's fault to rest...

The 7 bit limitation is deliberate on my part, as APRServe is designed to handle TNC text only, the 8th bit is masked off on each character. It could be removed easily if there ever were a reason to pass 8 bit data.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 16:38:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA07107
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 16:38:18 -0500 (CDT)
Message-ID: <LYR11589-103664-2000.08.19-16.44.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-103660-2000.08.19-16.11.07--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 14:36:38 -0700
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01ab01c00a25\$8f7d5fc0\$1695b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA07107

> > Fixed computers do not move, do not need to have a GPS receiver and
> > should have a way to indicate this. Calling "=" type packets not fixed
> > is protocol revisionism, and is now being applied to Mic-E converted
> > packets. It has been clearly stated in the past the "=" was for fixed
> > stations.

>
> I am sorry, but nothing has been revised, only you are now finding out
> that your "interpretation" must have been wrong all along. The "=" format
> was always defined to be a *format identifier* for a position report
> without a time stamp. It had nothing to do with the type of station. I
> am sorry if you missinterpreted it.

We have called if fixed, you have called if fixed. It is appropriate to call it fixed because the implications of using "=" without a timestamp was because it was for stations that would not change their Lat/Long frequently. Now the only way to differentiate a fixed vs mobile station is to observe that there are more the Lat/Long for the station. So be it. But I think it is wrong.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 16:44:30 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA07496
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 16:44:27 -0500 (CDT)
Message-ID: <LYR11589-103665-2000.08.19-16.50.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-103662-2000.08.19-16.20.18--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 14:44:16 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01bd01c00a26\$a02b4840\$1695b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id QAA07496

> >be eliminated. I think it is wrong to change the conversion of Mic-E to
> >type "=". It has long been stated that type "=" is a fixed station type,
> >and I strongly feel it should be still considered a fixed station type
> >with computer. Mobile computers are of type "@" and the timestamp is
> >acquired from a GPS receiver and thus provides very good accuracy for the
> >timestamp. Fixed computers do not move, do not need to have a GPS
>
> My recollection is the same as Bob's on this point. I do not recall the
> difference ever being defined as fixed vs. mobile, only timestamp vs no
> timestamp.

I will quote Bob from just a week ago:

"No, there should be no such association. "=" and "!" formats have always been for Position Reports *without* a time stamp. Although this has been usually applied to non-moving fixed stations, this is not the definition of the format. Yes, we even called it "fixed" stations, but that was a label of convenience, not a label of function..."

Yes, we have called it Fixed stations. "=" Fixed stations with computers, "!" Fixed stations without computers. We have used this terminology in discussions for a long time.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 16:50:38 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA08135
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 16:50:30 -0500 (CDT)
Message-Id: <LYR11589-103666-2000.08.19-16.56.36--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 17:50:09 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008192150.VAA25325@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/19/00 5:44 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:

>I will quote Bob from just a week ago:

>

>"No, there should be no such association. "=" and "!" formats have always
>been for Position Reports *without* a time stamp. Although this has been
>usually applied to non-moving fixed stations, this is not the definition
>of the format. Yes, we even called it "fixed" stations, but that was a
>label of convenience, not a label of function..."

>

>Yes, we have called it Fixed stations. "=" Fixed stations with
>computers, "!" Fixed stations without computers. We have used this
>terminology in discussions for a long time.

>

But @ has been used all along for weather reports from fixed stations. My
recollection remains that these were not limited to either mobile or
fixed use, only as to whether the data was time related.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 17:03:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10399
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 17:03:31 -0500 (CDT)
Message-ID: <LYR11589-103668-2000.08.19-17.09.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-103666-2000.08.19-16.56.36--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: NEW! aprsd 2.1.4 available
Date: Sat, 19 Aug 2000 15:03:14 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01cf01c00a29\$46a18020\$1695b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id RAA10399

> On 8/19/00 5:44 PM Brent Hildebrand (bhildebrand@earthlink.net) wrote:
>
> >I will quote Bob from just a week ago:
> >
> >"No, there should be no such association. "=" and "!" formats have always
> >been for Position Reports *without* a time stamp. Although this has been
> >usually applied to non-moving fixed stations, this is not the definition
> >of the format. Yes, we even called it "fixed" stations, but that was a
> >label of convenience, not a label of function..."
> >
> >Yes, we have called it Fixed stations. "=" Fixed stations with
> >computers, "!" Fixed stations without computers. We have used this
> >terminology in discussions for a long time.

> >

> But @ has been used all along for weather reports from fixed stations. My
> recollection remains that these were not limited to either mobile or
> fixed use, only as to whether the data was time related.

Yes, that is true. I have felt we should have a unique identifier for WX packets, but we have not agreed on that with using both "@" and "_" type packets for weather where the latter provides no additional information over the prior. I still strongly feel that the timeless packet types should be reserved for fixed stations, it adds useful information that can allow quick determination of a stations type. Moving stations have (should) ready access to a very accurate time source.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 17:05:23 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10549
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 17:05:22 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 19 Aug 2000 18:01:53 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRSd/APRServe NETWORK MAP
In-Reply-To: <LYR11586-103654-2000.08.19-15.37.58--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-103670-2000.08.19-17.11.24--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10008191736220.23673-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As APRSd and APRServe represent the global APRS INTERNET network, and Igates come and go all the time, I am finding myself increasingly confused as to what the real "aprserv" network is.

Each APRSd provides a WEB interface to see what other systems it is connected to, but wouldn't you have to be a worm to crawl through every possible connection to see what the big picture was at any instant?

What would really be neat would be a LIVE WORLD map showing all active IGates, with directional arrows between them showing the types of links.

Am I dreaming? (or is it already done somewhere?)

Since we are SO DEPENDENT on the infrastructure created by Steve and Dale and Brent and Sprouls, and others and our future depends on the reliability of this INTERNET network, I hope that we can come up with this big-picture LIVE INTERNET map as a way of keeping our fingers on the pulse... of the "network"

? de WB4APR, Bob ?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 17:19:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA12390
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 17:19:19 -0500 (CDT)
Message-Id: <LYR11589-103671-2000.08.19-17.25.01--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
Date: Sat, 19 Aug 2000 18:18:13 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200008192218.WAA26070@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/19/00 6:01 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>As APRSd and APRServe represent the global APRS INTERNET network, and
>Igates come and go all the time, I am finding myself increasingly
>confused as to what the real "aprserve" network is.
>
>Each APRSd provides a WEB interface to see what other systems it is
>connected to, but wouldn't you have to be a worm to crawl through every
>possible connection to see what the big picture was at any instant?
>
The web status was added in 2.1.3 I believe, many IGates are running
older versions. In addition, when people upgrade they must manually edit
their config file to enable the feature, so many of those who are using
the latest version do not have this enabled.

If you ever do succeed to produce such an image, it would be a horrible
mass of spaghetti, as many IGate are configured in strange and wonderful
ways!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 18:02:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA21241
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 18:02:19 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
Date: Sat, 19 Aug 2000 18:57:54 -0400
Content-Type: text/plain
References: <LYR18156-103671-2000.08.19-17.25.01--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-103671-2000.08.19-17.25.01--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-103678-2000.08.19-18.08.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00081919015803.00715@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

FYI, the aprsd web interface is enabled by default. The sysop must modify his aprsd.conf to disable it. Versions 2.1.2 and up have it.

The real barrier to making the map is the lack of lat/lon info of the aprsd igate in the status page. This could be added but would require one or more new entires in the aprsd.conf file.

On Sat, 19 Aug 2000, Steve Dimse K4HG wrote:

> On 8/19/00 6:01 PM Bob Bruninga (bruninga@nadn.navy.mil) wrote:
>
> >As APRSd and APRServe represent the global APRS INTERNET network, and
> >Igates come and go all the time, I am finding myself increasingly
> >confused as to what the real "aprserve" network is.
> >
> >Each APRSd provides a WEB interface to see what other systems it is
> >connected to, but wouldn't you have to be a worm to crawl through every
> >possible connection to see what the big picture was at any instant?
> >
> The web status was added in 2.1.3 I believe, many IGates are running
> older versions. In addition, when people upgrade they must manually edit
> their config file to enable the feature, so many of those who are using
> the latest version do not have this enabled.
>
> If you ever do succeed to produce such an image, it would be a horrible
> mass of spaghetti, as many IGate are configured in strange and wonderful
> ways!
>
> Steve K4HG
>
> ---
> You are currently subscribed to aprsspec as: dale@wa4dsy.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
--

Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 19 19:38:54 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA07142
for <lyris.aprsspec@tapr.org>; Sat, 19 Aug 2000 19:38:51 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 19 Aug 2000 20:38:09 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
In-Reply-To: <LYR11586-103678-2000.08.19-18.08.26--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-103687-2000.08.19-19.44.59--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10008192036080.10880-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 19 Aug 2000, Dale Heatherington wrote:

> The real barrier to making the [realtime network] map is the lack of
> lat/lon info of the aprsd igate in the status page. This could be added
> but would require one or more new entires in the aprsd.conf file.

Why cannot it capture it from the Igates POSITs?
Or couldnt each APRSd server simply beacon its own POSIT at the same 30
minute interval as everyone else?

Bob

>
> On Sat, 19 Aug 2000, Steve Dimse K4HG wrote:
> > On 8/19/00 6:01 PM Bob Bruninga (bruninga@nadm.navy.mil) wrote:
> >

> > >As APRSd and APRServe represent the global APRS INTERNET network, and
> > >Igates come and go all the time, I am finding myself increasingly
> > >confused as to what the real "aprserve" network is.
> > >
> > >Each APRSd provides a WEB interface to see what other systems it is
> > >connected to, but wouldn't you have to be a worm to crawl through every
> > >possible connection to see what the big picture was at any instant?
> > >
> > The web status was added in 2.1.3 I believe, many IGates are running
> > older versions. In addition, when people upgrade they must manually edit
> > their config file to enable the feature, so many of those who are using
> > the latest version do not have this enabled.
> > >
> > If you ever do succeed to produce such an image, it would be a horrible
> > mass of spaghetti, as many IGate are configured in strange and wonderful
> > ways!
> > >
> > Steve K4HG
> > >
> > ---
> > You are currently subscribed to aprsspec as: dale@wa4dsy.net
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> > Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
> > --
> Dale Heatherington
> dale@wa4dsy.net
> Web Page <http://www.wa4dsy.net>
> Sent by KMail for Linux
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> > To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> > Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
> > >
> > >

APRSdos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapr.org/tapr/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 20 07:44:38 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA10289
for <lyris.aprsspec@tappr.org>; Sun, 20 Aug 2000 07:44:35 -0500 (CDT)
Message-ID: <LYR11589-103727-2000.08.20-07.50.34--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 20 Aug 2000 08:39:42 -0400
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
References: <LYR18156-103671-2000.08.19-17.25.01--dale#wa4dsy.net@lists.tappr.org>
<LYR11610-103678-2000.08.19-18.08.26--propnet@greeceny.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <399FD18E.C82FD67@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

If the RF-to-Internet station included it's posit in the
data stream every 30-minutes, and there was a
"band-of-origination" byte in the spec that it could insert
into each posit as it is gated, this would be a very useful
system to plot the APRS' fluid topology.

Of course, this is simply the input from a user, who doesn't
program APRS code, so the compexity of doing such a thing
escapes me. But it would be a useful utility. :o)

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 20 09:51:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA19720
for <lyris.aprsspec@tapr.org>; Sun, 20 Aug 2000 09:51:11 -0500 (CDT)
Date: Sun, 20 Aug 2000 09:50:46 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-103742-2000.08.20-09.57.15--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
In-Reply-To: <LYR11595-103727-2000.08.20-07.50.34--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008201450.JAA70438@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Sun, 20 Aug 2000 08:39:42 -0400
> From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
> Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
> [...]
> If the RF-to-Internet station included it's posit in the
> data stream every 30-minutes, and there was a
> "band-of-origination" byte in the spec that it could insert
> into each posit as it is gated, this would be a very useful
> system to plot the APRS' fluid topology.
> [...]

If it is a once-every-30-minutes beacon, you may as well include
the frequency, rather than just the band.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 20 09:57:50 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA21053
for <lyris.aprsspec@tapr.org>; Sun, 20 Aug 2000 09:57:45 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sun, 20 Aug 2000 10:54:14 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
In-Reply-To: <LYR11586-103727-2000.08.20-07.50.34--bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-103745-2000.08.20-10.03.34--lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10008201051370.18925-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 20 Aug 2000, Ev Tupis (W2EV) wrote:

> If the RF-to-Internet station included it's posit in the
> data stream every 30-minutes, and there was a
> "band-of-origination" byte in the spec that it could insert
> into each posit as it is gated, this would be a very useful
> system to plot the APRS' fluid topology.

I think it is time to make the I-GATE ICON an OVERLAY ICON. This way, we can overlay "6", "2", "H" "S" to represent 6m, 2m, HF and Satellite IGates. I think this will be important in the years to come...

In fact, it is trivial to add this to APRSdos, only by adding a single byte in the list of ICON's that can be overlayed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 20 10:10:07 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA23956
for <lyris.aprsspec@tapr.org>; Sun, 20 Aug 2000 10:10:07 -0500 (CDT)
Message-Id: <LYR11589-103748-2000.08.20-10.15.44--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
Date: Sun, 20 Aug 2000 11:08:43 -0400
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008201508.PAA11922@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/20/00 10:54 AM Bob Bruninga (bruninga@nadn.navy.mil) wrote:

>I think it is time to make the I-GATE ICON an OVERLAY ICON. This way, we
>can overlay "6", "2", "H" "S" to represent 6m, 2m, HF and Satellite
>IGates. I think this will be important in the years to come...

>

>In fact, it is trivial to add this to APRSdos, only by adding a single
>byte in the list of ICON's that can be overlayed.

>

As I've said in the past, I still don't see the need to limit overlay to
any set of icons. javAPRS has always supported overlay of any icon.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 20 12:21:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA10002
for <lyris.aprsspec@tapr.org>; Sun, 20 Aug 2000 12:21:54 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 20 Aug 2000 13:20:20 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
In-Reply-To: <200008201508.PAA11922@www.findu.com>
Message-ID: <LYR11589-103774-2000.08.20-12.27.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10008201315060.18925-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> >I think it is time to make the I-GATE ICON an OVERLAY ICON. This way, we
> >can overlay "6", "2", "H" "S" to represent 6m, 2m, HF and Satellite
> >IGates. I think this will be important in the years to come...

Steve Dimse wrote:

> As I've said in the past, I still don't see the need to limit overlay to
> any set of icons. javAPRS has always supported overlay of any icon.

I agree. The Sprouls had a problem with it initially. Maybe that problem is no longer with us, now that they have been supporting Overlays for some time.

But in general, overlayable Icons need to have enough empty space in the center so that the overlay character looks nice, like it fits, instead of obscuring the central image of the ICON. I think that this is the main reason why we have not opened up Overlays to all characters, and tend to take it on a case-by-case basis...?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 22 04:19:15 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA22096
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 04:19:13 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRSd/APRServe NETWORK MAP
Date: Tue, 22 Aug 2000 19:29:56 +1000
Message-ID: <LYR11589-104184-2000.08.22-04.25.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
In-Reply-To: <LYR11660-103894-2000.08.21-00.04.16--darryl#radio-
active.net.au@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001201c00c1b\$8976f9e0\$32ae2acb@dell.radio-active.net.au>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi...

I tried a few weeks ago to plot the interconnects between APRSd/APRServe...
and ran into a problem... I do not have a tool that can graph 3D
relationships, and the information I was getting was useless without this...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 22 04:31:36 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id EAA22708
for <lyris.aprsspec@tappr.org>; Tue, 22 Aug 2000 04:31:34 -0500 (CDT)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] GATEing to RF
Date: Tue, 22 Aug 2000 19:42:18 +1000
Message-ID: <LYR11589-104185-2000.08.22-04.37.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001301c00c1d\$43a14040\$32ae2acb@dell.radio-active.net.au>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

G'Day

This is a hard one, but I think it is more of SPEC than SIG. There now exists software that makes it very easy to gate particular classes of callsigns to RF... This is hard or impossible under APRSd and WinAPRS, as far as I can tell... But is very easy under UI-View.

What we are seeing in Australia is a few stations sending large amounts of data to RF from the internet... For instance ALL european RF stations, or all stations from a particular IGATE in the USA.

The way that software is working is that it transmits the data onto RF as soon as it gets it from the IGATE. The most horrible example of this was when one station connected to an IGATE on the port that had the 30 minute history, and kept transmitting continuously for minutes.

Given for ALOHA we should be utilising the frequency less than 20% should the spec state that no transmitter should transmit on a channel more than 20% over a 30 second window? [720 Bytes/30 seconds]

Now,

- o Is this reasonable?
- o Are other people seeing these sorts of problems?
- o If this were implemented, what should we do with packets over the Quota?
- o Should we delete them
- o or try to send them again once and then delete them?

Please do not mis-understand me... There are certainly good reasons to push data from the internet to RF, and UI-View does a lot of good things for APRS... Some clarification would be useful before too many people start doing too many horrible things to wreck APRS.

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
 Mobile Number 0412 929 634 [+61 4 12 929 634 International]
 Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 07:36:29 2000
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA10208
 for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 07:36:26 -0500 (CDT)
 Message-ID: <LYR11589-104198-2000.08.22-07.42.12--
 lyris.aprsspec#tapr.org@lists.tapr.org>
 Date: Tue, 22 Aug 2000 13:34:32 +0100
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 From: Roger Barker <roger@peaksys.co.uk>
 Subject: [aprsspec] Re: GATEing to RF
 References: <LYR13460-104185-2000.08.22-04.37.45--
 roger#peaksys.co.uk@lists.tapr.org>
 In-Reply-To: <LYR13460-104185-2000.08.22-04.37.45--
 roger#peaksys.co.uk@lists.tapr.org>
 MIME-Version: 1.0
 List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
 List-Software: Lyris Server version 3.0
 List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
 List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
 X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
 X-Message-Id: <4q6d0iAYNno5EwIp@peaksys.co.uk>
 Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

In article <LYR13460-104185-2000.08.22-04.37.45--roger#peaksys.co.uk@lists.tapir.org>, Darryl Smith <darryl@radio-active.net.au> writes

>G'Day

>

>This is a hard one, but I think it is more of SPEC than SIG. There now
>exists software that makes it very easy to gate particular classes of
>callsigns to RF... This is hard or impossible under APRSd and WinAPRS, as
>far as I can tell... But is very easy under UI-View.

Not really, and it certainly can't be done accidentally. It requires the user to edit a file and input the information for the stations he wants to gate. (I thought WinAPRS also had that facility?)

>What we are seeing in Australia is a few stations sending large amounts of
>data to RF from the internet... For instance ALL european RF stations, or
>all stations from a particular IGATE in the USA.

Just as a point of fact, neither of those selections is possible in UI-View.

>The way that software is working is that it transmits the data onto RF as
>soon as it gets it from the IGATE. The most horrible example of this was
>when one station connected to an IGATE on the port that had the 30 minute
>history, and kept transmitting continuously for minutes.

>

> Given for ALOHA we should be utilising the frequency less than
> 20% should the spec state that no transmitter should transmit on
> a channel more than 20% over a 30 second window? [720 Bytes/30 seconds]

>Now,

> o Is this reasonable?

No, and have you told the few stations doing it that it isn't reasonable? If not, why not? If you've told them, what did they say?

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Tue Aug 22 11:05:13 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA11161
for <lyris.aprsspec@tappr.org>; Tue, 22 Aug 2000 11:05:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 22 Aug 2000 12:02:35 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: GATEing to RF
In-Reply-To: <LYR11586-104185-2000.08.22-04.37.45--
bruninga@nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-104239-2000.08.22-11.10.45--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10008220855470.8636-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Good idea. I like the idea of self-enforcement of the 20% aloha rule in general as a default. The user can override it on a case basis, but after say one hour, the default kicks back in. Or something like that...

bob

On Tue, 22 Aug 2000, Darryl Smith
wrote:

> This is a hard one, but I think it is more of SPEC than SIG. There now
> exists software that makes it very easy to gate particular classes of
> callsigns to RF... This is hard or impossible under APRSd and WinAPRS, as
> far as I can tell... But is very easy under UI-View.
>
> What we are seeing in Australia is a few stations sending large amounts of
> data to RF from the internet... For instance ALL european RF stations, or
> all stations from a particular IGATE in the USA.
>
> The way that software is working is that it transmits the data onto RF as
> soon as it gets it from the IGATE. The most horrible example of this was
> when one station connected to an IGATE on the port that had the 30 minute
> history, and kept transmitting continuously for minutes.

>
> Given for ALOHA we should be utilising the frequency less than
> 20% should the spec state that no transmitter should transmit on
> a channel more than 20% over a 30 second window? [720 Bytes/30 seconds]
>
> Now,
> o Is this reasonable?
> o Are other people seeing these sorts of problems?
> o If this were implemented, what should we do with packets over the Quota?
> o Should we delete them
> o or try to send them again once and then delete them?
>
> Please do not mis-understand me... There are certainly good reasons to push
> data from the internet to RF, and UI-View does a lot of good things for
> APRS... Some clarification would be useful before too many people start
> doing too many horrible things to wreck APRS.
>
> Darryl
>
> -----
> Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au for domain names
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org
>
>

APRSDos REPLY/COMMENT:

Reply mail addr: wb4apr@amsat.org
US mail address: 115 old Farm Ct, Glen Burnie, MD 21060
See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>
See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>
See GPS on ANY radio: <http://www.tapir.org/tapir/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 22 11:43:41 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA18759
for <lyris.aprsspec@tappr.org>; Tue, 22 Aug 2000 11:43:34 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 22 Aug 2000 12:38:35 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: GATEing to RF
In-Reply-To: <LYR11586-104198-2000.08.22-07.42.12--
bruninga@nadn.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-104249-2000.08.22-11.47.33--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10008221229160.1179-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 22 Aug 2000, Roger Barker wrote:

> > Given for ALOHA we should be utilising the frequency less than
> > 20% should the spec state that no transmitter should transmit on
> > a channel more than 20% over a 30 second window? [720 Bytes/30 seconds]
> > Now, Is this reasonable?
>
> No, and have you told the few stations doing it that it isn't
> reasonable? If not, why not? If you've told them, what did they say?

Actually, come to think about it, CHANNEL SHARING at less than 10% is totally enforced and built into APRSdos. Always has been. Even for manually transmitted packets, the software will not let you transmit ANY packet any more often than one every 10 seconds. I guess I assumed that this fail-safe protection being built-in was so fundamental to our UI network, that I never thought to suggest to other authors to make sure they also had some kinds of built-in loading protection.

The more I think about it, the more I would hope that all authors include some kinds of default limits on channel loading. I am not saying that you cannot let the user override these defaults. Of course, there are

exceptions and so forth, but in general, it seems reasonable to me that we all must protect the channel from unintended consequences of improper settings by having this final LOADING timer on each stations contribution to the network...

Just a thought. I am not pointing any fingers at all. I do not know what the other authors do, but 10% loading restrictions have always been fundamental to APRSdos to protect the network....

Any other use of the channel should not be on 144.39 but should be on a dedicated frequency...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 12:18:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA24482
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 12:18:30 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
Date: Tue, 22 Aug 2000 13:06:38 -0400
Content-Type: text/plain
References: <LYR18156-104185-2000.08.22-04.37.45--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-104185-2000.08.22-04.37.45--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-104255-2000.08.22-12.24.12--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00082213162201.00995@lab1>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Below are the aprsd.conf statements that control Internet to RF packet gating. Note TncPktSpacing which controls the rate packets

are allowed to be transmitted on RF. These packets come from a 64 packet fifo queue. Packets overflowing the queue are discarded. The discarded packets are counted in "TncQ Overflows" viewable on the aprsd html status page.

Allow Internet to RF message passing.

rf-allow yes

#

#Set the minimum time between TNC transmit packets in milliseconds

TncPktSpacing 1500

#

#

#Selected call signs which are always gated to RF

#if they are not seen locally. All packets from

#these are gated in real time. Do not use unless

#you really need real time data. Consider posit2rf below.

#They are case sensitive! Use upper case. Up to 64 may be defined.

#

gate2rf K4HG-8 N4NEQ-9

gate2rf W7LUS-14

#

#Call signs of stations whose posits are gated

#to RF every 15 minutes. Only posit packets are

#gated. Posits are taken from the history list.

#They are case sensitive! Use upper case.

posit2rf K4HG-8 N4NEQ-9

posit2rf W7LUS-14

#

#Define a list of message destination call signs or aliases

#to gate to RF full time. Note: the CQGA example

#below is CQ GA (Georgia). Edit to suite your locale.

#Up to 64 of these may be defined. They are case sensitive.

#

msgdest2rf SCOUTS KIDS CQGA

#

#end

On Tue, 22 Aug 2000, Darryl Smith wrote:

> G'Day

>

> This is a hard one, but I think it is more of SPEC than SIG. There now

> exists software that makes it very easy to gate particular classes of

> callsigns to RF... This is hard or impossible under APRSd and WinAPRS, as
> far as I can tell... But is very easy under UI-View.
>
> What we are seeing in Australia is a few stations sending large amounts of
> data to RF from the internet... For instance ALL european RF stations, or
> all stations from a particular IGATE in the USA.
>
> The way that software is working is that it transmits the data onto RF as
> soon as it gets it from the IGATE. The most horrible example of this was
> when one station connected to an IGATE on the port that had the 30 minute
> history, and kept transmitting continuously for minutes.
>
> Given for ALOHA we should be utilising the frequency less than
> 20% should the spec state that no transmitter should transmit on
> a channel more than 20% over a 30 second window? [720 Bytes/30 seconds]
>
> Now,
> o Is this reasonable?
> o Are other people seeing these sorts of problems?
> o If this were implemented, what should we do with packets over the Quota?
> o Should we delete them
> o or try to send them again once and then delete them?
>
> Please do not mis-understand me... There are certainly good reasons to push
> data from the internet to RF, and UI-View does a lot of good things for
> APRS... Some clarification would be useful before too many people start
> doing too many horrible things to wreck APRS.
>
> Darryl
>
> -----
> Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au for domain names
>
>
>
> ---
> You are currently subscribed to aprsspec as: dale@wa4dsy.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
--
Dale Heatherington
dale@wa4dsy.net
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 12:30:54 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27981
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 12:30:51 -0500 (CDT)
Message-Id: <LYR11589-104258-2000.08.22-12.36.57--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
Date: Tue, 22 Aug 2000 13:29:57 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200008221730.KAA15114@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/22/00 12:02 PM Bob Bruninga (bruninga@nadm.navy.mil) wrote:

>Good idea. I like the idea of self-enforcement of the 20% aloha rule in
>general as a default. The user can override it on a case basis, but after
>say one hour, the default kicks back in. Or something like that...
>

APRServe has always had hardcoded limits far, far below this limit, with
one message packet per station every minute, and one position report
every 10 minutes.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 14:26:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA19316

for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 14:26:38 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 22 Aug 2000 15:26:13 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
In-Reply-To: <LYR11586-104255-2000.08.22-12.24.12--bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-104280-2000.08.22-14.32.49--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10008221514450.21851-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 22 Aug 2000, Dale Heatherington wrote:

> ... note TncPktSpacing (milliseconds) which controls the rate packets
> are allowed to be transmitted on RF....
>
> TncPktSpacing 1500

Hummh... I can think of some ideas.

1) In the case of multiple packets, then this does not allow multiple packets to be all bundled together into a single multi-frame packet burst? THus we lose the advantage of TXD delay amortization? Actually, it probably does, since multiple packets if they queue up due to a busy channel, then they will all be bundled by the TNC anyway when the channel clears.

2) If 1.5 seconds above is applied to every packet, then we do get the inefficiencies of multiple TXD delays and you also get lots of problems with collisions when the first packet is still being digipeated when the next one comes out. In this case, it is still better to bundle up say 3 to 5 packets at a time before transmitting any of them?

So would it be better to force the IGate-to-RF to BUNDLE packets and then limit the timing of these bundles? Somethign like this:

- * Hold each packet for 3 seconds.
- * Combine each new packet with the pending queue
- * When a total of 5 packets are accumulated OR more than 3 seconds has gone by without any more packets, and when the courtesy count down timer is zero, then transmit them all at once.
- * reset courtesy count-down timer to N seconds.

If the Igate is to be an equal user of the channel, then set N to about 18 seconds. If the Igate is to get priority, then set it to about 8 or less..

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 14:43:13 2000
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA21742
 for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 14:43:11 -0500 (CDT)
 X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
 Date: Tue, 22 Aug 2000 15:42:45 -0400 (EDT)
 From: Bob Bruninga <bruninga@nadn.navy.mil>
 X-Sender: bruninga@arctic
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
 Subject: [aprsspec] Re: GATEing to RF
 In-Reply-To: <200008221730.KAA15114@scaup.prod.itd.earthlink.net>
 Message-ID: <LYR11589-104285-2000.08.22-14.49.18--
 lyris.aprsspec@tapr.org>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII
 List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
 List-Software: Lyris Server version 3.0
 List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
 List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
 X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
 X-Message-Id: <Pine.GS0.4.05L.10008221538520.21851-100000@arctic>
 Sender: bounce-aprsspec-11589@lists.tapr.org
 Precedence: bulk

On Tue, 22 Aug 2000, Steve Dimse wrote:

> APRServe has always had hardcoded limits far, far below this limit, with
 > one message packet per station every minute, and one position report
 > every 10 minutes.

Thats good. I like that. But, with over 2000 people on the APRServe stream, and say more than 10 of them decide to communicate with someone in dayton, then that totals to about 11 packets per minute or about the ALOHA limit for the Dayton IGate.

Thus, the limit seems to be a reasonable one, although it could saturate in such a worst case scenario...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 14:58:46 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA24056
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 14:58:44 -0500 (CDT)
Date: Tue, 22 Aug 2000 14:57:18 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-104291-2000.08.22-15.04.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
In-Reply-To: <LYR11595-104285-2000.08.22-14.49.18--
salo@networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008221957.0AA19661@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Tue, 22 Aug 2000 15:42:45 -0400 (EDT)
> From: Bob Bruninga <bruninga@nadn.navy.mil>
> Subject: [aprsspec] Re: GATEing to RF
> [...]
> Thats good. I like that. But, with over 2000 people on the APRServe
> stream, and say more than 10 of them decide to communicate with someone in
> dayton, then that totals to about 11 packets per minute or about the ALOHA
> limit for the Dayton IGate.

Is the Dayton IGate deaf, or if the comparison with ALOHA a bit stretched?

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 15:04:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA25005
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 15:04:32 -0500 (CDT)
Message-Id: <LYR11589-104295-2000.08.22-15.10.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
Date: Tue, 22 Aug 2000 16:03:13 -0400
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008222003.NAA20704@avocet.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/22/00 3:57 PM Tim Salo (salo@networkcs.com) wrote:

>> Thats good. I like that. But, with over 2000 people on the APRServe
>> stream, and say more than 10 of them decide to communicate with someone in
>> dayton, then that totals to about 11 packets per minute or about the ALOHA
>> limit for the Dayton IGate.

>

>Is the Dayton IGate deaf, or if the comparison with ALOHA a bit
>stretched?

>

Actually, the Dayton IGate is one way, which is probably a good thing ;-)

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 15:14:40 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA27726
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 15:14:39 -0500 (CDT)
Date: Tue, 22 Aug 2000 15:13:45 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-104301-2000.08.22-15.20.27--
lyris.aprsspec@tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
In-Reply-To: <200008222003.NAA20704@avocet.prod.itd.earthlink.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008222013.PAA20208@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Subject: Re: [aprsspec] Re: GATEing to RF
> Date: Tue, 22 Aug 2000 16:03:13 -0400
> From: Steve Dimse <sdimse@earthlink.net>
>
> On 8/22/00 3:57 PM Tim Salo (salo@networkcs.com) wrote:
> >> Thats good. I like that. But, with over 2000 people on the APRServe
> >> stream, and say more than 10 of them decide to communicate with someone in
> >> dayton, then that totals to about 11 packets per minute or about the ALOHA
> >> limit for the Dayton IGate.
> >
> >Is the Dayton IGate deaf, or if the comparison with ALOHA a bit
> >stretched?
>
> Actually, the Dayton IGate is one way, which is probably a good thing ;-)

Sorry I wasn't more clear.

Does the Dayton IGate operate in CSMA mode, namely does it listen
before transmitting in order to reduce collisions?

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 22 18:45:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA15472
for <lyris.aprsspec@tapr.org>; Tue, 22 Aug 2000 18:45:23 -0500 (CDT)
Message-Id: <LYR11589-104346-2000.08.22-18.51.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: GATEing to RF
In-reply-to: Your message of "Tue, 22 Aug 2000 16:03:13 EDT."
<LYR11592-104295-2000.08.22-15.10.39--n8ur#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Date: Tue, 22 Aug 2000 19:44:45 -0300
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008222344.TAA24299@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> On 8/22/00 3:57 PM Tim Salo (salo@networkcs.com) wrote:
>
> >> Thats good. I like that. But, with over 2000 people on the APRServe
> >> stream, and say more than 10 of them decide to communicate with someone in
> >> dayton, then that totals to about 11 packets per minute or about the ALOHA
> >> limit for the Dayton IGate.
> >
> >Is the Dayton IGate deaf, or if the comparison with ALOHA a bit
> >stretched?
> >
> Actually, the Dayton IGate is one way, which is probably a good thing ;-)
>
> Steve K4HG

For now... we'll be converting over to aprsd as soon as I work out some
details.

John N8UR
jra@febo.com

--
John Ackermann N8UR
Dayton, Ohio, USA
jra@febo.com -- http://www.febo.com

-----BEGIN PGP PUBLIC KEY BLOCK-----
Version: 2.6.3a

mQBtAzgI9hgAAAEDAMiMQDZTVVuVIS0AscJ0Wy63oK4+Q5xvtxbX/ZoG1qC0uYDI
Fph4/RqL9vVEItWBy6ISk+zbkATzPgy84nrI7+GBtld4F9DoHWARQXjC1I8cFZjY
TSe16ffq0/ba1ukLnQAFEBQlSm9obiBSLiBBY2t1cm1hbm4gTjhVUiA8anJhQGZl
Ym8uY29tPokAdQMFEDgI9hjQ0/ba1ukLnQEBtYIC/AxJ2RqT0/9TqY8JGEkPx2sw
+W5Z6Tu4UI654t9diGdCcIEPj0G1qUvwH2Xop0Yj9QGoM4NnHIw6qUSN5VH7hHKA
bGnpuTxinuW/gKaI3bt2MC8QZZq0gy2de269071E2A==
=UHWl

-----END PGP PUBLIC KEY BLOCK-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 23 17:08:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA24606
 for <lyris.aprsspec@tapr.org>; Wed, 23 Aug 2000 17:08:18 -0500 (CDT)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Version 1?
Date: Wed, 23 Aug 2000 10:33:05 -0700
Message-ID: <LYR11589-104562-2000.08.23-12.40.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJCEPGCAAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Maybe in time for DCC? That would be nice. I think it's important to get an actual, official Version 1 accomplished as the working group intended. Some of the stuff recently being discussed here could come later.
73, Cap

Cap Pennell KE6AFE
Santa Cruz, CA 95062-1002
3658.93N/12200.91W CM86xx
<http://members.cruzio.com/~cap>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 24 08:43:36 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA26744
for <lyris.aprsspec@tapr.org>; Thu, 24 Aug 2000 08:43:33 -0500 (CDT)
From: "Rob Wittner" <rmw@rwa-inc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSd/APRServe NETWORK MAP
Date: Thu, 24 Aug 2000 09:42:05 -0400
Message-ID: <LYR11589-104786-2000.08.24-08.49.42--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11697-103748-2000.08.20-10.15.44--rmw@rwa-inc.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6700
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <NCBBLCALKLCLLFGBMFCMKEMBDMAA.rmw@rwa-inc.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

> As I've said in the past, I still don't see the need to limit overlay to
> any set of icons. javAPRS has always supported overlay of any icon.
>
> Steve K4HG

So has APRS/CE, for the record...

-Rob
KZ5RW

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 27 11:00:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA04492
for <lyris.aprsspec@tapr.org>; Sun, 27 Aug 2000 11:00:00 -0500 (CDT)
Message-Id: <LYR11589-105391-2000.08.27-11.06.24--
lyris.aprsspec@tapr.org>
X-Sender: jjeffers@deskmedia.com
Date: Sun, 27 Aug 2000 10:58:54 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: James Jefferson <jjeffers@deskmedia.com>
Subject: [aprsspec] APRS weather questions
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.2.0.58.20000827093557.0095cdc0@deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello everyone,

I have written a command line utility that takes arguments and formats them
into a APRS WX packet.

I have some questions about copyrights, luminosity, snowfall, and raw rain count.

1) How do I say that my program sends APRS packets? Can I say it sends APRS(tm) compatible packets? I'm not willing to pay any licensing fees. The program is going to be released into the public domain.

2) The aprs spec (version 101m) isn't very clear about how luminosity is included in the packet. The spec says:
Other parameters that are available on some weather station units include:
"L = luminosity (in watts per square meter) 999 and below.
l l (lower-case letter "L") = luminosity (in watts per square meter)
1000 and above.
(L is inserted in place of one of the rain values).
s = snowfall (in inches) in the last 24 hours.
= raw rain counter"

What does it mean by replacing one of the rain values? Can someone show me an example packet? One with luminosity less than 1000 and a packet where luminosity is over 1000.

3) How many characters long is the snowfall data? s1? s12? s123? s1234?

4) How many characters long is the raw rain counter data? #1? #12? #123? #1234?

Hopefully my questions are not too confusing. I would not be surprised if they are, because I'm terribly confused with the APRS spec.

-James Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 28 21:15:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA20390
for <lyris.aprsspec@tapr.org>; Mon, 28 Aug 2000 21:15:31 -0500 (CDT)
User-Agent: Microsoft-Outlook-Express-Macintosh-Edition/5.02.2022
Date: Mon, 28 Aug 2000 22:12:58 +0000
Subject: [aprsspec] ANNOUNCEMENT: ARRL/TAPR 19th Annual DCC Sep. 22-24
From: Stan Horzepa <stanzepa@mail2.nai.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-105758-2000.08.28-21.21.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
In-Reply-To: <DEEIIIECOPELFOEIOFHLGIEGCDABAA.n7hpr@amsat.org>
Mime-version: 1.0

Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <B5D0892F.1E3D%stanzepa@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Notice:

September 1, 2000 is the last day to receive the special hotel room rate of \$89/night single or double and the pre-registration price for the conference.

ARRL and TAPR 19th Annual
Digital Communications Conference
September 22-24, 2000 - Orlando, Florida

For more information see: <http://www.tapr.org/dcc>

Information

Mark your calendar and start making plans to attend the year's premier event in digital communications. The 19th Annual ARRL and TAPR Digital Communications Conference will be held September 22-24, 2000, in Orlando, Florida - just minutes from the Orlando International Airport.

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs in digital communications, networking, and related technologies to meet, publish their work, and present new ideas and techniques for discussion. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications. The Digital Communications Conference is not just for the digital expert, but also for digitally oriented amateurs of all levels of experience.

A Conference for the Beginner as well

The conference is not just for the digital expert. As in years past an entire session strand with beginning, intermediate, and advanced presentations on selected topics in digital communications will be offered. Some of the topics will include: APRS, Satellite Communications, TCP/IP, Digital Radio, Spread Spectrum and other introductory topics. Come to the conference and hear these topics presented by the experts!

Area Attractions

The Orlando Florida area is famous for its attractions and vacation spots. Disney World, Universal Studios, and Sea World (just to name a few) are within 15 minutes of the hotel. Shuttle service from the hotel will be available for a small fee. Cape Canaveral and Cocoa Beach are a 30 minute drive East of the hotel.

Symposia, Seminars and Banquet

Two symposia/seminars will be held which allow those with additional time and interest to make the most of the Conference. For those who may have interest in just one symposium or seminar, registration for the conference is not required to attend these activities. This allows maximum flexibility for those who may want to participate during the Digital Communications Conference, but do not have an entire weekend to devote to the event.

The Fourth APRS National Symposium will be held on Friday and will be moderated by Steve Dimse, K4HG (the developer of javAPRS). It will likely include many APRS software authors, such as Bob Bruninga, WB4APR (the father of APRS), Keith Sproul, WU2Z, Mark Sproul, KB2ICI (the developers of MacAPRS and WinAPRS), Brent Hildebrand, KH2Z (the developer of APRSPUS), Mike Musick, N0QBF (developer of PocketAPRS), and other nationally known APRS leaders. Join this group for the afternoon and evening for in-depth discussions and presentations on the current and future status of APRS. This is a unique opportunity to gain insight into this fast-growing digital aspect of amateur operations that combines computers, packet radio, and GPS (Global Positioning System).

On Saturday night the DCC Banquet will be held. A guest speaker will speak after the banquet and a prize drawing will top the evening. The Grand Prize is a Palm VII Personal Digital Assistant and Synergy Systems LLC has donated two M12 development kits and many more.

The Sunday morning seminar will be focused on PIC development, design, and programming. This five-and-a-half hour seminar will focus on the things you need to know now in order to understand and begin to participate in PIC development.

Co-Hosts

The 2000 ARRL and TAPR Digital Communications Conference local co-hosts will be:

Lake Monroe Amateur Radio Society

(<http://www.qsl.net/lmars/>),

Orange County ARES/RACES

(<http://evcom.net/~jvoisin/ares.htm>),

Seminole County ARES/RACES

(<http://www.geocities.com/capecanaveral/launchpad/4773>),

and Orlando Amateur Radio Club

(<http://www.oarc.org/>).

International Co-Hosts PRUG (Packet Radio User Group of Japan) will be the International co-host for a third year running. PRUG will be hosting an informal social Friday evening before their seminar and symposium is held. Visit <http://www.prug.or.jp> for more information about PRUG.

Hotel

Conference presentations, meetings, and seminars will be held at the Orlando Airport Marriott. It is highly recommended that you book your room prior to arriving. A special DCC room rate of \$89/single and \$89/double per night has been blocked for 50 rooms and is available until September 1st, 2000. Once the 50 rooms have been reserved, room rates will increase. So be sure to book your rooms early! The hotel provides transportation to and from the Orlando International Airport. Please contact the hotel to arrange specific transportation needs.

Orlando Airport Marriott (conference hotel)
7499 Augusta Drive
Orlando, FL 32822
Phone 407-851-9000, Fax 407-857-6211
(<http://marriott-hotels.com/MCOAP/>)

What you can expect at DCC 2000

- A full day of papers and breakouts for the beginner to the advanced
- Two seminars/symposiums
- The fifth annual Student Paper session.
- A banquet with Special Guest Speaker.
- Informal get-togethers throughout the weekend.
- TAPR Membership Meeting
- An event at which the most important new developments in amateur digital communications are announced.
- Digital 'movers and shakers' from all over the world in attendance.

There are few activities where your participation can be so much fun and important! What a great way to share and renew your enthusiasm for digital amateur radio! A get-together with colleagues and bringing each other up to date on your latest work -- all this, and more, for an unforgettable weekend of amateur radio and digital communications. We hope to see you at the ARRL and TAPR Digital Communications Conference on September 22-24, 2000!

Full information on the conference and hotel information can be obtained by contacting:

Tucson Amateur Packet Radio
Phone: (940) 383-0000.
Fax: (940) 566-2544
Email: tapr@tapr.org
Web: <http://www.tapr.org>

Registration Form

Contact the TAPR office by Phone 940-383-0000, Fax 940-566-2544, or Internet: <http://www.tapr.org> and tapr@tapr.org to register or for additional information.

Conference Registration includes: Conference Proceedings, Sessions, Meetings, and Lunch on Saturday.

- Pre-Registration (before Sept 1st)

\$45.00 _____

- Registration (after Sept 1) or at door

\$55.00 _____

- Saturday Evening Dinner (Limited Space)

Dinner with Guest Speaker

Prize Drawing

\$30.00 _____

Symposia/Seminars

- 4th Annual APRS National Symposium

Friday, 1pm - 7pm. \$25.00 _____

- Sunday Seminar

PIC Design, Development, and Programming

Sunday, 8:30 am - 2 pm. \$20.00 _____

TOTAL _____

Name/Call:

Street Address:

City/State/Zip:

Country:

Phone Number:

Email:

Charge my credit card (circle one):

VISA MasterCard

Acct:

Expiration Date:

Signature on card:

Mail completed registration form with check to:

TAPR

8987-309 E Tanque Verde Rd #3378

Tucson, AZ 85749-9399

Or check <http://www.tapr.org/dcc> for an on-line registration form.

A registration packet will be mailed in September upon receipt of registration form and payment.

You are currently subscribed to dsp as: SRBIBLE@GATE.NET

To unsubscribe send a blank email to leave-dsp-3222B@lists.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 31 09:57:38 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11957

for <lyris.aprsspec@tapr.org>; Thu, 31 Aug 2000 09:57:38 -0500 (CDT)

Message-Id: <LYR11589-106720-2000.08.31-10.04.06--

lyris.aprsspec@tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] APRS Protocol Specification Version 1.0

Date: Thu, 31 Aug 2000 10:56:39 -0300

From: John Ackermann <jra@febo.com>

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200008311456.KAA12559@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm happy (you don't know *how* happy) to announce that APRS Protocol Specification Version 1.0 was approved by the APRS Working Group on August 29, 2000 and has been made available for download at the Working Group web page, <http://www.tapr.org/tapr/html/Faprswg.html>.

This Version 1.0 (technically, due to change control, version 1.0.1) document is nearly 130 pages long and does a tremendous job documenting the APRS protocol as used on the air in the summer of 2000. We should all thank the Working Group members, and especially Ian Wade, G3NRW, the Technical Editor who actually wrote the thing, for their hard work. Although the process took far longer than anyone anticipated when we started, I think the end result is definitely worth the wait.

Where do we go from here? Although this is an excellent document, it almost certainly still contains errors, omissions, and ambiguities. In addition, it reflects only the current protocol, and not any of the areas in which the protocol might be extended. The WG members will be meeting at the DCC in Orlando next month and electronically thereafter to put in place a mechanism to deal with requested corrections and enhancements. The WG Charter outlines a way to handle this, but experience has shown that some modifications may be necessary for a workable process.

Also at the DCC and thereafter, the WG will consider adding new members. Since its founding, several new authors have come on the scene, and two of the original members have resigned. Any author of software or firmware implementing the APRS protocol who wishes to join the WG should contact me (jra@febo.com or n8ur@tapr.org) directly. Please -- we need to hear directly from those interested in joining, so rather than writing to ask that someone be considered, encourage that person to get in touch with me. Also, please remember that the WG is not affiliated with TAPR. Membership decisions will be made by the group, and I can't tell you now how many (if any) new members will be added.

73,
John Ackermann N8UR
Administrative Chair, APRS Working Group
jra@febo.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 31 21:27:30 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA21903
for <lyris.aprsspec@tappr.org>; Thu, 31 Aug 2000 21:27:29 -0500 (CDT)
Message-ID: <LYR11589-106836-2000.08.31-21.33.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Stephen M. King" <frastephen@home.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] How does change occur?
Date: Thu, 31 Aug 2000 22:26:22 -0400
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_011B_01C0139A.7E04A9A0"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <011e01c013bc\$05735dc0\$eb600c18@burl1.nj.home.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_NextPart_000_011B_01C0139A.7E04A9A0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

First, congratulations to the WG for completing the approval of the =
Protocol Spec! I am sure you all worked very hard to document this =
wonderful system/service!

The recent Internet Routing debate inspired me to read the WG charter =
and to begin wading through the Spec in order to learn more about APRS. =
I have learned a lot from both the discussion and the reading.

It seems that implementing NOGATE (or whatever is used) is a protocol =
question. =20

My first question would be is that correct? Is implementing NOGATE (or =
whatever) a change to the protocol? If it is not then why?

Again, I ask, not to stir the pot (which is why I am asking here), but =
for my own education and understanding. If it is a protocol question, =
then the charter seems to outline a process for implementation. I am a =
bit confused since it sounds like NOGATE is being implemented already.=20

Thanks in advance for helping me to learn more about this great system!

Peace and 73,
Stephen
KD30G

-----=_NextPart_000_011B_01C0139A.7E04A9A0

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">

<HTML><HEAD>

<META content=3D"text/html; charset=3Diso-8859-1" =
http-equiv=3DContent-Type>

<META content=3D"MSHTML 5.00.3207.2500" name=3DGENERATOR>

<STYLE></STYLE>

</HEAD>

<BODY bgColor=3D#ffffff>

<DIV>First, congratulations to the WG for =
completing the=20
approval of the Protocol Spec! I am sure you all worked very hard =
to=20

document this wonderful system/service!</DIV>

<DIV> </DIV>

<DIV>The recent Internet Routing debate =
inspired me to=20

read the WG charter and to begin wading through the Spec in order to =
learn more=20

about APRS. I have learned a lot from both the =
discussion and=20

the reading.</DIV>

<DIV> </DIV>

<DIV>It seems that implementing NOGATE =
(or whatever=20

is used) is a protocol question. </DIV>

<DIV> </DIV>

<DIV>My first question would be is that =

correct? Is implementing NOGATE (or whatever) a change to the=20
protocol? If it is not then why?</DIV>

<DIV> </DIV>

<DIV>Again, I ask, not to stir the =
pot (which is=20
why I am asking here), but for my own education and =
understanding. If=20
it is a protocol question, then the charter seems to outline a=20
process for implementation. I am a bit confused =
since it=20
sounds like NOGATE is being implemented already. </DIV>
<DIV> </DIV>
<DIV>Thanks in advance for helping me to =
learn more=20
about this great system!</DIV>
<DIV> </DIV>
<DIV>Peace and 73,</DIV>
<DIV>Stephen</DIV>
<DIV>KD30G</DIV>
<DIV> </DIV></BODY></HTML>

-----=_NextPart_000_011B_01C0139A.7E04A9A0--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Sep 2 16:52:39 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA01789
for <lyris.aprsspec@tappr.org>; Sat, 2 Sep 2000 16:52:35 -0500 (CDT)
Message-ID: <LYR11589-107152-2000.09.02-16.59.03--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Tropical Cyclone Pressure
Date: Sat, 2 Sep 2000 21:46:53 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001901c01527\$4f9a6440\$1401a8c0@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi All-

Nice Job on the Spec!

In Chapter 12, page 67-- the minimum central pressure is defined as 4 digits. The present on-the-air protocol is 3 digits. If we are changing to this-- can a time table be set?

Now that Version 1 is out - is there a mechanism for adding to the protocol?
I have 17 months of suggestions built up.

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 3 08:39:11 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA25160

for <lyris.aprsspec@tapr.org>; Sun, 3 Sep 2000 08:39:10 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 3 Sep 2000 09:38:48 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Tropical Cyclone Pressure
In-Reply-To: <LYR11586-107152-2000.09.02-16.59.03--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-107258-2000.09.03-08.45.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10009030933460.6636-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 2 Sep 2000, Dale Huguley wrote:

> In Chapter 12, page 67-- the minimum central pressure is defined as 4
> digits. The present on-the-air protocol is 3 digits. If we are changing to
> this-- can a time table be set?

We basically got little input from any of the authors either way. So my
guess is that you know more about what all the authors do with this field
and it is best to discuss it with any author that might be doing it
differently.

> Now that Version 1 is out - is there a mechanism for adding to the protocol?
> I have 17 months of suggestions built up.

Yes, submit it to the WG. The process is painful, but I hope we will
make progress...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 4 13:51:49 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA27419
for <lyris.aprsspec@tappr.org>; Mon, 4 Sep 2000 13:51:49 -0500 (CDT)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: APRS Protocol Specification Version 1.0
Date: Mon, 4 Sep 2000 11:51:27 -0700
Message-ID: <LYR11589-107529-2000.09.04-13.58.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
In-Reply-To: <LYR11639-106720-2000.08.31-10.04.06--ke6afe#arrrl.net@lists.tappr.org>
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJIEMBCBAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> -----Original Message-----

> From: John Ackermann N8UR

> Sent: Thursday, August 31, 2000 6:57 AM

> Subject: [aprsspec] APRS Protocol Specification Version 1.0

>

> I'm happy (you don't know *how* happy) to announce that APRS Protocol
> Specification Version 1.0 was approved by the APRS Working Group on
> August 29, 2000 and has been made available for download at the Working
> Group web page, <http://www.tappr.org/tappr/html/Faprswg.html>.

<snip>

Great work, men! It's rewarding to see a "group" actually get things DONE!
Congratulations on a fine document. You should all be very proud of your
accomplishment. I know it wasn't easy. Thank you for your effort and
perseverance.

Now, on to version 2. hi hi

73, Cap KE6AFE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 5 00:56:54 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA09662
for <lyris.aprsspec@tapr.org>; Tue, 5 Sep 2000 00:56:53 -0500 (CDT)
Message-Id: <LYR11589-107658-2000.09.05-01.03.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 4 Sep 2000 22:56:16 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Validation Suite
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130300b5da333b90f6@[198.106.196.199]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, Folks.

Great Work on the Specification. Its been a long time coming, and badly needed. Sure, its not perfect, but I have never yet seen a cooperatively produced spec that is. Well, come to think of it, I've never seen a unilaterally produced "perfect spec" either!

I need to generate a suite of validation packets for testing the code I am writing. I have in mind something along the line of Ian's "Mic-E Test Suite" he distributed on Aug 2, 2000.

If I am going to do that work, it might as well be done in a form that is usable by others. So, the question of format comes up.

(a) Can everyone handle text with only carriage-return line delimiters, or does it have to be CR+LF? What about Unix line delimiters?

(b) My code will reject "packets" from file-read input that begin with anything other than a number or upper-case A-Z (ie, first character of a call-sign). Its easy to start lines with something else, say "/" (as a

random choice) as a comment, describing what the packet is testing. Does anyone else's code have this or similar capability? If not, how should packets be tagged so as simplify cross-reference between the packets and the description? Another option would be to produce two files, one containing only the test packets and the other with the same test packets plus comments. It would then be up to the tester to correlate the text with comments to the action of the code.

(c) Are there naming requirements to allow the text file to function as a source of "packets"? Of course, a text file can always be renamed.

(d) Are there any other requirements I should be aware of?

I plan to use sample packets directly from the spec for validation of acceptance and interpretation.

I also plan to include packets with a variety of errors and problems to test handling of fault cases. But, there will be no cases which violate the constraints of AX.25 packets. That means, for example,

(1) NO packets with excessively long call signs (ie, W7ABCDEF), either as source address or as via-calls.

(2) NO packets with SSID's outside of the range 0-15 (ie, KA7EHK-99), either as source address or as via-calls.

(3) NO packets with excessively long destination address (ie, APW345678)

(4) NO packets which exceed the AX.25 character-length limits

If anyone has suggestions for common fault-types (especially as seen on the air), they are encouraged to write me. Rather than clogging the list, unless your comment really needs to be seen by other list readers, please send your comments directly to me.

Cheers, everyone,

Jim Wagner
Oregon Research Electronics

```
-----  
wagnerj@proaxis.com      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM  near Corvallis OR, home of  
ka7ehk@yahoo.com         Oregon State University  
-----
```

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 5 02:05:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA17671
for <lyris.aprsspec@tapr.org>; Tue, 5 Sep 2000 02:05:55 -0500 (CDT)
Message-ID: <LYR11589-107669-2000.09.05-02.12.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 5 Sep 2000 07:33:35 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <ian.wade@netro.co.uk>
Subject: [aprsspec] Re: Validation Suite
References: <LYR19680-107658-2000.09.05-01.03.33--
Ian.Wade@netro.co.uk@lists.tapr.org>
In-Reply-To: <LYR19680-107658-2000.09.05-01.03.33--
Ian.Wade@netro.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <QzUntYA\$0Jt5Ew1E@netro.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

-----BEGIN PGP SIGNED MESSAGE-----

Hash: SHA1

In article <LYR19680-107658-2000.09.05-01.03.33--Ian.Wade@netro.co.uk@lists.tapr.org>, Jim Wagner <wagnerj@proaxis.com> writes

>

>I need to generate a suite of validation packets for testing the code I am
>writing. I have in mind something along the line of Ian's "Mic-E Test
>Suite" he distributed on Aug 2, 2000.

[snip]

>

>If anyone has suggestions for common fault-types (especially as seen on the
>air), they are encouraged to write me. Rather than clogging the list,
>unless your comment really needs to be seen by other list readers, please
>send your comments directly to me.

>

Hi Jim. Take a look at my <APRSdec> program (<http://www.tapr.org/~g3nrw>).
You'll find many error traps in there.

73

Ian, G3NRW

Technical Editor, APRS Protocol Specification

- - -

```
+-----+
| APRS on 144.800 [I091SX] ~55km/35 miles NNW of London |
| email: g3nrw@tapr.org |
| |
| APRS PROTOCOL SPEC: http://www.tapr.org/tapr/html/Faprswg.html |
| <APRSdec> APRS DECODER: http://www.tapr.org/~g3nrw |
| Mic-Encoder Software: http://www.tapr.org/~g3nrw |
+-----+
```

-----BEGIN PGP SIGNATURE-----

Version: PGP sdk version 1.7.1

iQA/AwUB0bSTvwnqw0tnuPgqEQJz+ACdH32cx2wJNrqqcBt2884P8PP1CsQAoPbU
ME+2CV17Ik9xiH/ShYVC50xv
=faT0

-----END PGP SIGNATURE-----

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Sep 6 08:55:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21398
for <lyris.aprsspec@tapr.org>; Wed, 6 Sep 2000 08:55:04 -0500 (CDT)
Message-ID: <LYR11589-107904-2000.09.06-09.01.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] ADMIN: Monthly Announcement
Date: Wed, 6 Sep 2000 08:44:49 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8204E40F8922D411A0C10008C7A42AC223586E@MRDNEXCH01>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like "what kind of printer should I buy to print out my copy of the APRS specification?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.
- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)

. The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzepa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 10 12:23:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA17461
for <lyris.aprsspec@tapr.org>; Sun, 10 Sep 2000 12:23:51 -0500 (CDT)
Message-Id: <LYR11589-108543-2000.09.10-12.30.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Sun, 10 Sep 2000 12:19:02 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Validation Suite
In-Reply-To: <LYR11608-107658-2000.09.05-01.03.33--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.2.7.2.20000910121221.00e00ca0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>(1) NO packets with excessively long call signs (ie, W7ABCDEF), either as
>source address or as via-calls.
>
>(2) NO packets with SSID's outside of the range 0-15 (ie, KA7EHK-99),
>either as source address or as via-calls.
>
>(3) NO packets with excessively long destination address (ie, APW345678)
>
>(4) NO packets which exceed the AX.25 character-length limits

It would probably be useful though, to create a file containing such errors
as a separate item.

(I am volunteering to help)

Point being, there are devices like HSPs out there, that give you the
ability to get data in your serial port that could never be transmitted
over the air.

Testing compliance with a spec is one issue, but as we've seen with WAPRS,
bad data must not cause failures.

This might be simpler to implement with a program though.
Define error routines, then activate each either randomly, or just walk the
tree choosing all possible error combinations. I did this once in the
credit terminal world, to fish out a bug that only affected some of our
terminals, very infrequently. With a randomized error spectrum, it was 5 in
7000. Once I found that, I was able to repeat it every time, because I
knew the mechanism from the program logs.

Testing for crash could even be automated, since you could stimulate a
response from the target software to see if it's still alive (?APRS? or
similar)

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 11 16:44:52 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12508
for <lyris.aprsspec@tapr.org>; Mon, 11 Sep 2000 16:44:49 -0500 (CDT)
Date: Mon, 11 Sep 2000 16:44:26 -0500 (CDT)
From: Tim Salo <salo@networkcs.com>
Message-Id: <LYR11589-108789-2000.09.11-16.51.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Validation Suite
In-Reply-To: <LYR11595-107658-2000.09.05-01.03.33--
salo#networkcs.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200009112144.QAA50805@us.networkcs.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Mon, 4 Sep 2000 22:56:16 -0700
> From: Jim Wagner <wagnerj@proaxis.com>
> Subject: [aprsspec] Validation Suite
> [...]
> I need to generate a suite of validation packets for testing the code I am
> writing. I have in mind something along the line of Ian's "Mic-E Test
> Suite" he distributed on Aug 2, 2000.
> [...]
> (b) My code will reject "packets" from file-read input that begin with
> anything other than a number or upper-case A-Z (ie, first character of a
> call-sign). Its easy to start lines with something else, say "/" (as a
> random choice) as a comment, describing what the packet is testing. Does

^%Sorry, your message was not sent out to 'aprsspec'.
^%Your message quotes too many continuous lines of a previous message.
^%
^%You quoted 19 lines, and this mailing list is set to reject messages
^%which quote more than 15 continuous lines of a previous message.
^%
^%Please resubmit your message, this time quoting fewer lines of the previous
message.

> anyone else's code have this or similar capability? If not, how should
> packets be tagged so as simplify cross-reference between the packets and
> the description? Another option would be to produce two files, one
> containing only the test packets and the other with the same test packets
> plus comments. It would then be up to the tester to correlate the text with

```
> comments to the action of the code.  
> [...]
```

I believe that the APRServe data stream considers a line starting with the
"#" character to be a comment.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 11 18:30:09 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA27037
for <lyris.aprsspec@tapr.org>; Mon, 11 Sep 2000 18:30:07 -0500 (CDT)
Date: Mon, 11 Sep 2000 16:29:32 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Validation Suite
In-Reply-To: <LYR12892-108789-2000.09.11-16.51.54--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-108800-2000.09.11-18.37.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10009111628450.17930-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 11 Sep 2000, Tim Salo wrote:

```
> I believe that the APRServe data stream considers a line starting with the  
> "#" character to be a comment.
```

So does Perl, which I use a lot to process APRS packets off the internet
data stream.

Curt Mills, WE7U

hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 11 19:03:45 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA01251

for <lyris.aprsspec@tapr.org>; Mon, 11 Sep 2000 19:03:44 -0500 (CDT)

User-Agent: Microsoft-Outlook-Express-Macintosh-Edition/5.02.2022

Date: Mon, 11 Sep 2000 20:01:11 +0000

Subject: [aprsspec] DCC Update

From: Stan Horzepa <stanzepa@mail2.nai.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Message-ID: <LYR11589-108816-2000.09.11-19.09.53--

lyris.aprsspec#tapr.org@lists.tapr.org>

In-Reply-To: <DEEIIIECOPELFOEIOFHLGIEBEDCAA.srbible@gate.net>

Mime-version: 1.0

Content-type: text/plain; charset="ISO-8859-1"

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <B5E2EA87.25D5%stanzepa@ct2.nai.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA01251

19th Annual ARRL/TAPR Digital Communications Conference

Orlando, FL ñ September 22-24, 2000

** Update 9/11/2000 **

A little more than one week away, the 19th Annual ARRL/TAPR Digital Communications Conference is about to begin. For detailed information about the conference, please visit the official DCC web page at <http://www.tapr.org/dcc>.

Registration for the conference will be taken at the door. Friday registration is for an entire afternoon APRS activities, demonstrations, and

presentations. Saturday registration includes conference proceedings, lunch, and a full day of presentations. Saturday night includes Banquet, dinner speaker, and prize drawing. Sunday registration is for the PICmicro Design seminar.

Banquet Prize Drawings:

Grand Prize ñ Kenwood TM-D700A (donated by Kenwood)

2nd Grand Prize ñ Palm VII Personal Digital Assistant

Two Motorola Oncore M12 GPS Evaluation Kits (donated by Synergy Systems, LLC)

Map and coordinates:

A map of the conference hotel and coordinates are available at
<ftp://ftp.tapr.org/dcc/dcc.hotel.map.pdf>

Speakers:

The following is a list of presenters. Preliminary schedule is available from <ftp://ftp.tapr.org/dcc/2000.dcc.schedule.pdf>

APRS Seminar - Friday September 22, 2000

John Ackerman, N9UR	APRS WG
Steve Bible, N7HPR	T-238 Weather Station
John Blowsky, KB2SCS	APRS LOOKUP
Steve Bragg, KA9MVA	HamHud
Bob Bruninga, WB4APR	APRSdos, satellite, etc.
Steve Dimse, K4HG	Internet APRS
Walter Dunckel, KD6VYV	Serial Control of D7/D700
John Hansen, W2FS	KISS TNC, D700 Keyboard
Dale Huguley, KG5QD	Weather Server
Larry Gahagan, AB0JM	Wildfire Support
Byon Garranrant, N6BG	TinyTrack
Mike Musick, N0QBF	PalmAPRS/Tracker construction
Robert Osband, N4SCY	Public Service with APRS
Tom Schaefer, NY4I	APRS Email Gateway
Darryl Smith, VK2TDS	APRS in the 2000 Olympics
The Sprouls, WU2Z/KB2ICI	Mac/Win/XAPRS
Rob Wittner, KZ5RW	APRS-CE

Main Session, Paper Presentation - Saturday 23, 2000

Titles and abstracts are available at
<http://www.tapr.org/tapr/html/Fcnc19.html>

EasyTrak, A PIC Based Rotor/Radio Controller Interface
By Steve Bible N7HPR

APRS Tiny Web Pages

By Bob Bruninga WB4APR

Channel Capacity Simulation of Peer-to-Peer Spread Spectrum Satellite Transponders

By Matthew Ettus N2MJI

Correlation for Direct Sequence Spread Spectrum

By Panagiotis Gavalas

PIC-et Radio II: How to Receive AX.25 UI Frames Using Inexpensive PIC Microcontrollers

By John A. Hansen W2FS

Winlink 2000 ...A Global Ham Message Transfer and Deliver Network

By Hans Kessler N8PGR, Vic Poor W5SMM, Rick Muething KN6KZB, and Steve Waterman K4CJX

Frequency Offset Acquisition and Tracking Algorithms, Part 1 and Part 2

By Mohamed K. Nezami

External Common Gateway Interface (CGI) Access to FindU

By Thomas M. Schaefer NY4I

Server Applications within APRS Internet Server Environment

By Thomas M. Schaefer NY4I

APRS and the TAPR EasyTrak Az/El Rotor Control System

By Keith Sproul WU2Z

APRS and Kenwood TM-D700 Voice Messaging

By Keith Sproul WU2Z and Mark Sproul KB2ICI

Internet Wide Callsign Database using LDAP

By Mark Sproul KB2ICI

Automatic Voice Relay System

By Bob Bruninga WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Sep 15 14:50:46 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA25311
for <lyris.aprsspec@tapr.org>; Fri, 15 Sep 2000 14:50:46 -0500 (CDT)
X-Server-Uuid: 7edb479a-fd89-11d2-9a77-0090273cd58c
Message-ID: <LYR11589-109511-2000.09.15-14.57.51--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Pendley, Michael" <mycall@sandia.gov>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Which barometric pressure to use
Date: Fri, 15 Sep 2000 13:49:53 -0600
MIME-Version: 1.0
X-WSS-ID: 15DCA2EC68384-01-01
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <77349FC5DC1CD211BAD900805FA7241A0977449A@es01snlnt.sandia.gov>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Sorry if this is an old question. A quick search of the archive and the spec did not provide an answer.

The source for my weather data provides two different barometric pressures. One is absolute and one is adjusted for our local altitude (over 5000 feet here). Which one is customarily encoded into an APRS packet?

Thanks in advance

-Mike, K5ATM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 18 12:22:12 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27236
for <lyris.aprsspec@tapr.org>; Mon, 18 Sep 2000 12:22:10 -0500 (CDT)
Message-ID: <LYR11589-109975-2000.09.18-12.28.00--
lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Final Update - DCC Orlando, FL Sep 22-24, 2000
Date: Mon, 18 Sep 2000 12:13:50 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <8204E40F8922D411A0C10008C7A42AC22358BB@MRDNEXCH01>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

From: Steven R. Bible [mailto:srbible@gate.net]
Sent: Monday, September 18, 2000 12:34 PM
To: picsig@lists.tapr.org; tacgps@lists.tapr.org; wxsig@lists.tapr.org;
hfsig@lists.tapr.org; dsp@lists.tapr.org; ss@lists.tapr.org
Subject: Final Update - DCC Orlando, FL Sep 22-24, 2000

19th Annual ARRL/TAPR Digital Communications Conference
Orlando, FL - September 22-24, 2000

**** Final Update 9/18/2000 ****

Counting down the final days until the 19th Annual ARRL/TAPR Digital Communications Conference this weekend in Orlando, Florida. For detailed information about the conference, please visit the official DCC web page at <http://www.tapr.org/dcc>.

Registration for the conference will be taken at the door. Friday registration is for an entire afternoon APRS activities, demonstrations, and presentations. Saturday registration includes conference proceedings, lunch, and a full day of presentations. Saturday night includes Banquet, dinner speaker, and prize drawing. Sunday registration is for the PICmicro Design seminar.

DCC Social:
Please join us Friday evening at 7:00 PM for a social get together time. The social is generously hosted by the Packet Radio Users Group of Japan (PRUG).

PRUG Presentation:
Friday night the Packet Radio Users Group of Japan will present talks on

their progress on high-speed digital networks in Japan.

Saturday Night Banquet Speaker:

Mr. Doug Campbell, of Triton Network Systems (<http://www.triton-network.com>)

will be our DCC Banquet Speaker. Triton Network Systems is located in Orlando, Florida.

Vice President Product Management, Marketing, & International Business as Vice President of International Sales, Marketing and Product Management, Mr.

Campbell leads the assessment of global community needs and spearheads the development of Triton Network Systems' product and marketing strategies.

Mr. Campbell cultivated his management skills in sales, marketing and product development working 17 years for Nortel Networks. While based in Singapore, he built a multifunctional pan-Asian team, which successfully captured a 100% market share with MCI-WorldCom Asia, successfully introducing a number of new products. Prior to this, Mr. Campbell was instrumental in the establishment of an SDH broadband equipment joint venture in China and served as a member of the company's Board of Directors.

Mr. Campbell received a Bachelor of Engineering Physics degree from the Royal Military College of Canada in Kingston, Canada, and a Master of Business Administration from IMD (University of Lausanne) in Switzerland.

Banquet Prize Drawings:

Grand Prize - Kenwood TM-D700A (donated by Kenwood)

2nd Grand Prize - Palm VII Personal Digital Assistant (donated by TAPR)

Two Motorola Oncore M12 GPS Evaluation Kits (donated by Synergy Systems, LLC)

Microchip PICSTART-PLUS PICmicro Programmer (donated by Microchip)

PIC Seminar Prize Drawing

Microchip MPLAB-ICD (donated by Microchip)

Project and Demonstration Room:

The DCC is a place where people can talk about their projects and gain ideas

for new ones. The Project and Demonstration Room has become a recent DCC tradition where people can bring and display their projects. The room will be located next to the registration room and across the hall from the main presentation room. The Project and Demonstration Room will open at registration time and be closed (locked) 11:00 PM Friday and Saturday night.

Map and coordinates:

A map of the conference hotel and coordinates are available at
<ftp://ftp.tapr.org/dcc/2000.dcc.hotel.map.pdf>

Speakers:

The following is a list of presenters. PDF version available from
<ftp://ftp.tapr.org/dcc/2000.dcc.speakers.pdf>

Speaking schedule (subject to change) is available from
<ftp://ftp.tapr.org/dcc/2000.dcc.schedule.pdf>

APRS Seminar - Friday September 22, 2000

John Ackerman, N9UR	APRS WG
Steve Bible, N7HPR	T-238 Weather Station
John Blowsky, KB2SCS	APRS LOOKUP
Bob Bruninga, WB4APR	APRSDOS, satellite, etc.
Steve Dimse, K4HG	Internet APRS
Walter Dunckel, KD6VYV	Serial Control of D7/D700
John Hansen, W2FS	KISS TNC, D700 Keyboard
Dale Huguley, KG5QD	Weather Server
Larry Gahagan, AB0JM	Wildfire Support
Byon Garranrant, N6BG	TinyTrack
Mike Musick, N0QBF	PalmAPRS/Tracker construction
Robert Osband, N4SCY	Public Service with APRS
Tom Schaefer, NY4I	APRS Email Gateway
Darryl Smith, VK2TDS	APRS in the 2000 Olympics
The Sprouls, WU2Z/KB2ICI	Mac/Win/XAPRS
Rob Wittner, KZ5RW	APRS-CE

Main Session, Paper Presentation - Saturday 23, 2000
Titles and abstracts are available at
<http://www.tapr.org/tapr/html/Fcnc19.html>

EasyTrak, A PIC Based Rotor/Radio Controller Interface
By Steve Bible N7HPR

APRS Tiny Web Pages
By Bob Bruninga WB4APR

Channel Capacity Simulation of Peer-to-Peer Spread Spectrum Satellite
Transponders
By Matthew Ettus N2MJI

Correlation for Direct Sequence Spread Spectrum
By Panagiotis Gavalas

PIC-et Radio II: How to Receive AX.25 UI Frames Using Inexpensive PIC
Microcontrollers

By John A. Hansen W2FS

Winlink 2000 ...A Global Ham Message Transfer and Deliver Network

By Hans Kessler N8PGR, Vic Poor W5SMM, Rick Muething KN6KZB, and Steve Waterman K4CJX

Frequency Offset Acquisition and Tracking Algorithms, Part 1 and Part 2

By Mohamed K. Nezami

APRS and the TAPR EasyTrak Az/El Rotor Control System

By Keith Sproul WU2Z

APRS and Kenwood TM-D700 Voice Messaging

By Keith Sproul WU2Z and Mark Sproul KB2ICI

Internet Wide Callsign Database using LDAP

By Mark Sproul KB2ICI

Automatic Voice Relay System

By Bob Bruninga WB4APR

Introductory Sessions - Saturday 23, 2000

Intro to Packet Radio

By John Ackerman, N8UR

Intro to APRS

By Guy Story, KC5QOI

Intro to Digital Satellites

By Barry Baines, WD4ASW

Intro to HF Digital

TBD

Intro to Software Defined Radios

By Steve Bible, N7HPR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Oct 1 21:56:03 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA27307
for <lyris.aprsspec@tapr.org>; Sun, 1 Oct 2000 21:56:00 -0500 (CDT)
User-Agent: Microsoft-Outlook-Express-Macintosh-Edition/5.02.2022
Date: Sun, 01 Oct 2000 22:54:22 +0000
Subject: [aprsspec] ADMIN: Monthly Message
From: Stan Horzepa <stanzepa@mail2.nai.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-112302-2000.10.01-22.03.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B5FD6990.2E9E%stanzepa@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA27307

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like "what kind of printer should I buy to print out my copy of the APRS specification?") may be considered off-topic. If you start a message with

"this is off-topic" then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Oct 1 23:50:05 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA08897
for <lyris.aprsspec@tapr.org>; Sun, 1 Oct 2000 23:50:05 -0500 (CDT)
Message-Id: <LYR11589-112318-2000.10.01-23.56.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Date: Sun, 1 Oct 2000 21:47:22 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Call Test
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130302b5fdc13922f1@[198.106.196.35]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, group,

Well, here is the first in what should become a test suite for APRS code writers. This one isn't the most critical ... it provides a multitude of STATUS packes with various valid and invalid call signs. If you don't do any call validation, then don't bother. But, if you reject calls like TAH0E (thats a zero) or WAB97C, then use this to test your call filter. There are about 15 valid calls (each including no SSID, one digit SSID, and two digit SSID). And, there are about 100 additional invalid calls. They are systematic order.

The file includes comment lines. The "//" is used as the first two characters of every comment and this is the only place this pair appears. To change it to other comment tokens, simply do a search-and-replace to change to your appropriate comment character(s).

A very extensive test for the destination field comes next.

You can find the file at:

<http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Oct 1 23:59:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA09660
for <lyris.aprsspec@tapr.org>; Sun, 1 Oct 2000 23:59:58 -0500 (CDT)
Message-Id: <LYR11589-112342-2000.10.02-00.06.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 1 Oct 2000 21:57:52 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] What to do about invalid Destintation?
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130303b5fdc3fcc969@[198.106.196.35]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, group -

Your comments are solicited.

Today, the following two packets were received.

KB7ILD-9>GPSLK,W7VHY-10*,WIDE5-1:\$GPRMC,220306,A,4736.8947,N,12219.4088,W,000.0,000.0,011000,018.8,E*69

KD7NM-9>GPSMV,W7AA-10*,WIDE5-3:\$GPRMC,220342,A,4745.988,N,12220.638,W,000.0,357.2,011000,018.9,E*67

I think we all know what they are SUPPOSED to indicated, but don't. As a refresher, here is the text from the spec...

=====
AX.25 Destination Address

Where it is not possible to include a symbol in the Information field, the symbol may be specified in the AX.25 Destination Address instead, using the following generic destination addresses: GPSxyz, GPSCnn, GPSEnn,

SPCxyz and SYMxyz.

The characters xy and nn refer to entries in the APRS Symbol Tables. For example, from the Primary Symbol Table, a tracker could use the Destination Address GPSPVV V or GPS30 to specify a "car" icon.

The character z specifies the overlay character (where permitted), or is a V V (space) - the space is a filler character, as all AX.25 addresses must be exactly 6 characters long.

=====

Note, particularly, that last sentence. How do we handle destination addresses which are NOT 6 characters long?

- (1) Do we assume that a space was intended?
- (2) Do we reject it as an invalid APRS packet?
- (3) Do we accept it as an APRS packet, but do not process the destination address to be anything other than a non-symbol encoding character sequence?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 00:26:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA18330
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 00:26:08 -0500 (CDT)
Message-ID: <LYR11589-112344-2000.10.02-00.33.36--
lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-112318-2000.10.01-23.56.09--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Call Test
Date: Sun, 1 Oct 2000 22:25:06 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <000f01c02c31\$22bb6520\$4592b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id AAA18330

I find no valid status packets in the file below. At least, valid APRS status packets.

----- Original Message -----

From: "Jim Wagner" <wagnerj@proaxis.com>

> Well, here is the first in what should become a test suite for APRS code
> writers. This one isn't the most critical ... it provides a multitude of
> STATUS packes with various valid and invalid call signs. If you don't do
> any call validation, then don't bother. But, if you reject calls like TAH0E
> (thats a zero) or WAB97C, then use this to test your call filter. There are
> about 15 valid calls (each including no SSID, one digit SSID, and two digit
> SSID). And, there are about 100 additional invalid calls. They are
> systematic order.

> <http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 00:28:02 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA18370
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 00:27:58 -0500 (CDT)
Message-ID: <LYR11589-112345-2000.10.02-00.35.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-112342-2000.10.02-00.06.18--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: What to do about invalid Destintation?
Date: Sun, 1 Oct 2000 22:27:37 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001301c02c31\$7a99e6e0\$4592b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id AAA18370

> Hello, group -
>
> Your comments are solicited.
>
> Today, the following two packets were received.
>
> KB7ILD-9>GPSLK,W7VHY-10*,WIDE5-1:\$GPRMC,220306,A,4736.8947,N,12219.4088,W,000.0,
> 000.0,011000,018.8,E*69
>
> KD7NM-9>GPSMV,W7AA-10*,WIDE5-3:\$GPRMC,220342,A,4745.988,N,12220.638,W,000.0,357.
> 2,011000,018.9,E*67
>
> I think we all know what they are SUPPOSED to indicated, but don't. As a

> refresher, here is the text from the spec...

What is wrong with the above? The TO fields are perfectly valid APRS TO fields.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 00:33:31 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA18466
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 00:33:30 -0500 (CDT)
Message-ID: <LYR11589-112346-2000.10.02-00.41.01--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-112342-2000.10.02-00.06.18--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: What to do about invalid Destintation?
Date: Sun, 1 Oct 2000 22:32:39 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001901c02c32\$2ea18c60\$4592b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id AAA18466

> =====
> AX.25 Destination Address
>
> Where it is not possible to include a symbol in the Information field, the

> symbol may be specified in the AX.25 Destination Address instead, using the
> following generic destination addresses: GPSxyz, GPSCnn, GPSEnn,
> SPCxyz and SYMxyz.
>
> The characters xy and nn refer to entries in the APRS Symbol Tables. For
> example, from the Primary Symbol Table, a tracker could use the Destination
> Address GPSMVV V or GPS30 to specify a "car" icon.
>
> The character z specifies the overlay character (where permitted), or is a V V
> (space) - the space is a filler character, as all AX.25 addresses must be
> exactly 6 characters long.

The Z in GPSxyz is optional. Not required. Trailing spaces are ignored. Remember that your FROM in the AX.25 is also 6 characters. A callsign like KH2Z is padded with 2 trailing spaces. They are then ignored on receive.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 00:40:21 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA18858
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 00:40:17 -0500 (CDT)
Message-ID: <LYR11589-112347-2000.10.02-00.47.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-112318-2000.10.01-23.56.09--
bhildebrand#earthlink.net@lists.tapr.org> <LYR11585-112344-2000.10.02-00.33.36--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Call Test
Date: Sun, 1 Oct 2000 22:39:22 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <002301c02c33\$1ecbc980\$4592b3d1@celeron>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id AAA18858

> I find no valid status packets in the file below. At least, valid APRS status packets.

I amend what I said, no timestamped APRS status packets, which basically invalidates my previous statement. But note, there is no restriction that a callsign needs to be a valid Amateur Radio callsign. Thus, the example TAH0E is perfectly valid. It just is not an Amateur Radio callsign.

> ----- Original Message -----

> From: "Jim Wagner" <wagnerj@proaxis.com>

>

>

> > Well, here is the first in what should become a test suite for APRS code
> > writers. This one isn't the most critical ... it provides a multitude of
> > STATUS packes with various valid and invalid call signs. If you don't do
> > any call validation, then don't bother. But, if you reject calls like TAH0E
> > (thats a zero) or WAB97C, then use this to test your call filter. There are
> > about 15 valid calls (each including no SSID, one digit SSID, and two digit
> > SSID). And, there are about 100 additional invalid calls. They are
> > systematic order.

>

>

> > <http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 02:50:43 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA26633

for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 02:50:42 -0500 (CDT)

Message-ID: <LYR11589-112360-2000.10.02-02.58.12--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Mon, 2 Oct 2000 08:49:07 +0100

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Roger Barker <roger@peaksys.co.uk>

Subject: [aprsspec] Re: Call Test

References: <LYR13460-112318-2000.10.01-23.56.09--

roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-112318-2000.10.01-23.56.09--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <I++RxLAz3D25Ew\$Z@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-112318-2000.10.01-23.56.09--roger#peaksys.co.uk@lists.tappr.org>, Jim Wagner <wagnerj@proaxis.com> writes
>Hello, group,
>
>Well, here is the first in what should become a test suite for APRS code
>writers. This one isn't the most critical ... it provides a multitude of
>STATUS packes with various valid and invalid call signs.
[snip]

I thought the source address of an APRS frame could be anything that is a valid AX25 address as defined in the AX25 spec. For example, don't remote digis and other such devices sometimes use descriptive addresses that wouldn't validate under normal callsign rules?

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Oct 2 07:55:17 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA29205
for <lyris.aprsspec@tappr.org>; Mon, 2 Oct 2000 07:55:16 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 2 Oct 2000 08:52:18 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: Call Test
In-Reply-To: <LYR11586-112318-2000.10.01-23.56.09--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-112373-2000.10.02-08.03.09--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10010020838430.15429-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm not sure i understand the practicality of filtering out non-valid HAM calls in APRS. Many real-applications of APRS use tactical calls to avoid confusion out in the field. SUch a filter may be a nice option, though I don't know who would use it, because sometimes the only thing interesting to watch is the special events. Or am I missing something?

Bob

On Sun, 1 Oct 2000, Jim Wagner wrote:

> Well, here is the first in what should become a test suite for APRS code
> writers. This one isn't the most critical ... it provides a multitude of
> STATUS packes with various valid and invalid call signs. If you don't do
> any call validation, then don't bother. But, if you reject calls like TAH0E
> (thats a zero) or WAB97C, then use this to test your call filter. There are
>
> <http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>
>
> Jim Wagner
> Oregon Research Electronics

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 07:57:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA29294
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 07:57:24 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 2 Oct 2000 08:56:16 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: What to do about invalid Destintation?
In-Reply-To: <LYR11586-112342-2000.10.02-00.06.18--
bruninga#nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-112374-2000.10.02-08.05.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10010020853410.15429-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 1 Oct 2000, Jim Wagner wrote:

> KB7ILD-9>GPSLK,W7VHY-10*,WIDE5-1:\$GPRMC,220306,A,4736.8947,N,12219....
> =====
> AX.25 Destination Address
>
> The character z specifies the overlay character (where permitted), or is a V V
> (space) - the space is a filler character, as all AX.25 addresses must be
> exactly 6 characters long.
> =====
>
> Note, particularly, that last sentence. How do we handle destination
> addresses which are NOT 6 characters long?
>
> (1) Do we assume that a space was intended?

All callsigns in AX.25 are 7 bytes long, no matter how many characters are used. The ADDRESS field is fixed length. Most TNC's may truncate the call if less characters are used, but they are all transmitted as spaces.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 2 08:02:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA29423
for <lyris.aprsspec@tapr.org>; Mon, 2 Oct 2000 08:02:23 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 2 Oct 2000 09:01:10 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Call Test
In-Reply-To: <LYR11586-112344-2000.10.02-00.33.36--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-112375-2000.10.02-08.10.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10010020900070.15429-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 1 Oct 2000, Brent Hildebrand wrote:

> I find no valid status packets in the file below. At least, valid APRS status packets.

Anything that begins with a ">" is a valid STATUS packet, though stations are encouraged to include a date-time stamp at the beginning if their status is changing...?

Or am I missing something?
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Oct 2 08:15:48 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA01155
for <lyris.aprsspec@tappr.org>; Mon, 2 Oct 2000 08:15:47 -0500 (CDT)
Message-ID: <LYR11589-112377-2000.10.02-08.23.18--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-112375-2000.10.02-08.10.03--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Call Test
Date: Mon, 2 Oct 2000 06:14:23 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001d01c02c72\$b01c1c20\$c792b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA01155

> On Sun, 1 Oct 2000, Brent Hildebrand wrote:

>

> > I find no valid status packets in the file below. At least, valid APRS status packets.

>

> Anything that begins with a ">" is a valid STATUS packet, though stations
> are encouraged to include a date-time stamp at the beginning if their
> status is changing...?

>

> Or am I missing something?

> BOB

Read my rebuttal to myself.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 3 00:10:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA07038
for <lyris.aprsspec@tapr.org>; Tue, 3 Oct 2000 00:10:31 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-112534-2000.10.03-00.18.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 2 Oct 2000 22:10:06 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: What to do about invalid Destination?
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <103130300b5ff10796752@[198.106.196.35]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, List ...

Both Bob Bruninga and Brent Hildebrand pointed out that many TNCs do not display terminating spaces in the Destination Address field, just as they do not display terminating spaces in the From Address field.

This observation leads to the very slightly picky observation about the paragraph in the specs reading:

> The character z specifies the overlay character (where permitted), or is
> a " "
> (space) - the space is a filler character, as all AX.25 addresses must be
> exactly 6 characters long.

The same requirment is not stated for the From Call, it is automatically fulfilled by the TNC. Yet, with the preceeding statement, it is easy to believe that the Destination Address to be parsed by the software will have, in this case, exactly 6 characters, just like the addresss field of a message will have exactly 9 characters.

Now I know better and my code will reflect this fact.

Many thanks to both Brent and Bob...

Jim Wagner, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 3 00:12:13 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA07364
for <lyris.aprsspec@tapr.org>; Tue, 3 Oct 2000 00:12:12 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-112535-2000.10.03-00.18.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 2 Oct 2000 22:10:12 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: Call Test
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <103130301b5ff167cd11d@[198.106.196.35]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, List....

Bob Bruninga and Brent Hildebrand have just pointed out that (at least some) APRS programs do no call filtering because of several reasons including:

(1) Commercial application

(2) FCC regulations does not require "real" calls in the From Field of a packet, thus allowing "tactical calls" such as RED3.

This test file is not required to be used by anyone. If you don't do call filtering, then don't bother with it. But, if you do, its available.

For me, personally, I have no interest in commercial application and will reject any request for commercial licensing.

As for the second point, what FCC regs allows does not make it right. I find no justification for hams, especially using packet, to use anything other than their real call. Special events can be handled by SPCL in the destination field. But, I had best stop before the flames from my nostrils melt my keypad!

The test file does have one potential problem - it does not contain CRLF line terminators; there are only CRs. It will be replaced with one containing CRLFs. If you wish to use it, it is at

<http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>

If you don't, please just forget about it. There will be a second one shortly providing a very extensive test of non-MicE destination address fields. That will be followed by a short file to test discrimination of local vs digipeated packets.

Depending on their sizes, there will be several to quite a few following that to test parsing of the different types of APRS packets.

Cheers,
Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

```
-----  
wagnerj@proaxis.com      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM  near Corvallis OR, home of  
ka7ehk@yahoo.com         Oregon State University  
-----
```

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 3 11:16:18 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA00207
for <lyris.aprsspec@tapr.org>; Tue, 3 Oct 2000 11:16:16 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 3 Oct 2000 12:12:57 -0400 (EDT)
From: Bob Bruninga <bruninga@nadm.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Call Test
In-Reply-To: <LYR11586-112535-2000.10.03-00.18.44--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-112597-2000.10.03-11.22.23--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10010031151020.936-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 2 Oct 2000, Jim Wagner wrote concerning APRS callsigns:

> As for the second point, what FCC regs allows does not make it right. I
> find no justification for hams, especially using packet, to use anything
> other than their real call. Special events can be handled by SPCL in the
> destination field. But, I had best stop before the flames from my nostrils
> melt my keypad!

I think you might be missing how Tactical calls are used at APRS special
events to eliminate confusion and ambiguity on maps. Commonly used
tactical calls in my area are:

LEAD, TAIL, VIP1, VIP2, VIPn ...
CHASE1, CHASE2... CHASEn
SAG1, SAG2,... SAGn
H2O, RANGER, MEDIC1, MEDIC2, ...

These assure that there is no mistake in identification of an object on the maps. They follow the FCC rules by including the HAM call in the BText every 10 minutes.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 3 12:20:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA10824
for <lyris.aprsspec@tapr.org>; Tue, 3 Oct 2000 12:20:49 -0500 (CDT)
Subject: [aprsspec] Re: Call Test
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="----_=_NextPart_001_01C02D5E.0068B6C4"
Date: Tue, 3 Oct 2000 13:18:52 -0400
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Message-ID: <LYR11589-112600-2000.10.03-12.27.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] Re: Call Test
Thread-Index: AcAs+Jh+Aqgcdx+xRn25mpwNVyTinQAZGSqw
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3BF69E507000F749921956EFC6B19084FEC8@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_=_NextPart_001_01C02D5E.0068B6C4

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Jim,

There might be reasons other than "commercial" applications. Aside from the basic tactical type calls already mentioned, you might want to consider non-profit or disaster relief organizations when making rules. Other organizations often use tactical calls for all communications, and there's a lot of non-FCC organizations that don't even use the 6 letter calls. Red Cross, Civil Air Patrol, MARS are a few examples of organizations that most software authors have given access to their programs because of their benevolent nature.

Callsign restriction adds a level of complexity that just really isn't needed. If I just had to do some filtering, I'd probably go for NOCALL and that's about it.

Ed Woodrick

-----Original Message-----

From: Jim Wagner [mailto:wagnerj@proaxis.com]
Posted At: Tuesday, October 03, 2000 1:10 AM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] Re: Call Test
Subject: [aprsspec] Re: Call Test

Hello, List....

Bob Bruninga and Brent Hildebrand have just pointed out that (at least some) APRS programs do no call filtering because of several reasons including:

(1) Commercial application

(2) FCC regulations does not require "real" calls in the From Field of a packet, thus allowing "tactical calls" such as RED3.

This test file is not required to be used by anyone. If you don't do call filtering, then don't bother with it. But, if you do, its available.

For me, personally, I have no interest in commercial application and will reject any request for commercial licensing.

As for the second point, what FCC regs allows does not make it right. I find no justification for hams, especially using packet, to use anything other than their real call. Special events can be handled by SPCL in the destination field. But, I had best stop before the flames from my nostrils melt my keypad!

The test file does have one potential problem - it does not contain CRLF line terminators; there are only CRs. It will be replaced with one containing CRLFs. If you wish to use it, it is at

<http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt>

If you don't, please just forget about it. There will be a second one shortly providing a very extensive test of non-MicE destination address fields. That will be followed by a short file to test discrimination of local vs digipeated packets.

Depending on their sizes, there will be several to quite a few following that to test parsing of the different types of APRS packets.

Cheers,
Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: Mail-Lists.APRS@ed-com.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

-----_=_NextPart_001_01C02D5E.0068B6C4
Content-Type: text/html;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">

<HTML>

<HEAD>

<META HTTP-EQUIV=3D"Content-Type" CONTENT=3D"text/html; charset=3Diso-8859-1">

<META NAME=3D"Generator" CONTENT=3D"MS Exchange Server version = 6.0.4417.0">

<TITLE>RE: [aprsspec] Re: Call Test</TITLE>

</HEAD>

<BODY>

<!-- Converted from text/plain format -->

<P>Jim,

</P>

<P>There might be reasons other than =
"commercial" applications. Aside from the basic tactical type =
calls already mentioned, you might want to consider non-profit or =
disaster relief organizations when making rules. Other organizations =
often use tactical calls for all communications, and there's a lot of =
non-FCC organizations that don't even use the 6 letter calls. Red Cross, =
Civil Air Patrol, MARS are a few examples of organizations that most =
software authors have given access to their programs because of their =
benevolent nature.</P>

<P>Callsign restriction adds a level of complexity that =
just really isn't needed. If I just had to do some filtering, I'd =
probably go for NOCALL and that's about it.</P>

<P>Ed Woodrick

</P>

<P>-----Original Message-----

From: Jim Wagner [<A =
HREF=3D"mailto:wagnerj@proaxis.com">mailto:wagnerj@proaxis.com]
>

Posted At: Tuesday, October 03, 2000 1:10 AM

Posted To: Mail-Lists.APRS

Conversation: [aprsspec] Re: Call Test

Subject: [aprsspec] Re: Call Test

</P>

<P>Hello, List....
</P>

<P>Bob Bruninga and Brent Hildebrand have just pointed =
out that (at least

some) APRS programs do no call filtering because of =
several reasons

including:
</P>

<P>(1) Commercial application
</P>

<P>(2) FCC regulations does not require "real" =
calls in the From Field of a

packet, thus allowing "tactical calls" such =
as RED3.
</P>

<P>This test file is not required to be used by anyone. =
If you don't do call

filtering, then don't bother with it. But, if you do, =
its available.
</P>

<P>For me, personally, I have no interest in commercial =
application and will

reject any request for commercial licensing.
</P>

<P>As for the second point, what FCC regs allows does not =
make it right. I

find no justification for hams, especially using =
packet, to use anything

other than their real call. Special events can be =
handled by SPCL in the

destination field. But, I had best stop before the =
flames from my nostrils

melt my keypad!

</P>

<P>The test file does have one potential problem - it =
does not contain CRLF

line terminators; there are only CRs. It will be =
replaced with one

containing CRLFs. If you wish to use it, it is =
at
</P>

<P><A =
HREF=3D"http://i6.yimg.com/6/6c78a2c3/h/ac890c30/calls.txt">http://i6.yim=
g.com/6/6c78a2c3/h/ac890c30/calls.txt
</P>

<P>If you don't, please just forget about it. There will =
be a second one

shortly providing a very extensive test of non-MicE =
destination address

fields. That will be followed by a short file to test =
discrimination of

local vs digipeated packets.
</P>

<P>Depending on their sizes, there will be several to =
quite a few following

that to test parsing of the different types of APRS =
packets.
</P>

<P>Cheers,

Jim, KA7EHK
</P>

<P>Jim Wagner

Oregon Research Electronics

<FONT =
SIZE=3D2>-----=

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08350
for <lyris.aprsspec@tapr.org>; Tue, 3 Oct 2000 14:49:41 -0500 (CDT)
Date: Tue, 3 Oct 2000 12:47:49 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Call Test
Message-ID: <LYR11589-112610-2000.10.03-14.56.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10010031246560.20179-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 2 Oct 2000, Jim Wagner wrote concerning APRS callsigns:

> As for the second point, what FCC regs allows does not make it right. I
> find no justification for hams, especially using packet, to use anything
> other than their real call. Special events can be handled by SPCL in the
> destination field. But, I had best stop before the flames from my nostrils
> melt my keypad!

I'll melt my keypad a little ;-)

Search & Rescue:

AIR1, AIR2 (Helicopters)
TEAM1, TEAM2 (Ground teams)
DOG7, DOG8 (Search dog teams)
R50, R51 (Vehicles)
BASE (Command center for the search)

In each case above, we use the same tactical call on APRS as their radio tactical call. This matches the white boards we use to keep track of status for each team. The radios we use for voice are on a county search frequency, so tactical calls are ok there. APRS used is on amateur frequencies.

Tactical callsigns are critical in reducing the confusion factor. Things get confusing in a hurry if we must translate from

callsign/SSID to radio tactical callsigns at the point when an injured person is found (the busiest/most confusing part of the operation). KISS principle in real life here. Seconds really do count.

The sheriff himself looks at the map at times, and doesn't understand or care to understand callsigns/SSID's. He wants to know instantly where each team is.

In this case (support of a search operation) callsigns are of secondary importance. The more hidden they are from logistics and operations people, the better. I set them up to broadcast just enough to keep it legal and no more. The APRS software will show only the tactical callsigns on the topo maps. The hams running the APRS station can determine callsigns if/when necessary.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 9 15:57:06 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA07983
for <lyris.aprsspec@tapr.org>; Mon, 9 Oct 2000 15:57:05 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-113988-2000.10.09-16.04.30--
lyris.aprsspec@tapr.org>
Date: Mon, 09 Oct 2000 16:55:48 -0400
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Reply-To: quesnelb@ve2.ele.etsmtl.ca
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Validation of packets (opinion)
Content-Type: multipart/alternative;
boundary="-----286E0968C7BE103CFF3C89A7"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Minutes De-Coding
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <s9f6d84c.065@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id MAA11873

Page 45 of the APRS Protocol Reference provides a table for Mic-E longitude Degrees Encoding.

If we have already determined the offset from the Destination address, what is the purpose of displaying the Long Offset in the table? (+100/+0)

Won't (D-28) + Offset work in all cases?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Oct 26 08:48:08 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA02756
for <lyris.aprsspec@tappr.org>; Thu, 26 Oct 2000 08:48:05 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 26 Oct 2000 09:46:28 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Grid Squares
Message-ID: <LYR11589-116589-2000.10.26-08.57.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10010260935270.19006-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

ARGH!!!!!!! I just checked the spec, and it is wrong about grid squares.. We worked long and hard to get everyone on the same page with regard to this new format for GRID SQUARES. But now I see that the implementation of the wording in the spec, put it in the wrong place. Of course it is entirely my fault for not finding this prior to publication...

It is under the MIC-E heading and this is completely incorrect. It has nothing to do with the Mic-E. It was supposed to replace the "MAIDENHEAD" section on page 33. It has nothing to do with the Mic-E on page 55!

No wonder everyone is confused... ARGH...

The preferred format for GRID SQUARES is >GG##GG/\$...

The reason for this is because it *can be received on a THD7 or D700* and because it permits the inclusion of ICONS which the older [GG##GG] did not. Maps without ICONS are quite uninteresting... Mobiles and HT's that cannot receive grids are also a disadvantage...

I don't know what we do officially about this mixup, but everyone with a THD7 or D700 would probably prefer that grid reports be in this format so they can receive them and not be left in the dark... Unfortunately, they will not be "decoded" as an actual posit, but they will be "received". The [] format will not even be received...

For backwards compatibiliy, I will put the [GG##gg] format back into APRSdos for the upcoming Meteor Shower activities. But it will leave out everyone that could try a new first.... Moible or HT MS!

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Oct 26 10:49:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA17480
for <lyris.aprsspec@tapr.org>; Thu, 26 Oct 2000 10:49:10 -0500 (CDT)
Reply-To: <kc5jgv@arrl.net>
From: "Scott-KC5JGV" <kc5jgv@arrl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Grid Squares
Date: Thu, 26 Oct 2000 10:43:55 -0700
Message-ID: <LYR11589-116596-2000.10.26-10.56.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
Importance: Normal
In-Reply-To: <LYR14466-116589-2000.10.26-08.57.06--kc5jgv#arrl.net@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <LNBBKMIGGBHAKIDIELKNKEGNDCAA.kc5jgv@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hey Bob, don't get upset, Grid Squares are hard to understand sometimes. Let me tell you a funny story, time out from APRS for a sec.....

When I was wild a crazy and in the Marine Corps, I was stationed on the island of Okinawa, Japan. One of the things that we always enjoyed doing to break up the monotony, was to send a new Marine on an impossible mission. Such as sending a guy over to the supply depot to get a BA-1100-November with a ST-Ring attached. Translation, a BALLOON AND STRING!

Well, the best was one day we sent a poor feller over to supply to get a Box of Grid Squares. When he left we called ahead and told them to tell him they'd just run out, but they knew another area supply to go get them. Well, to make a long story short, the poor guy ended up carrying a box on his

shoulder all the way across the small base we were at with the words, GRID SQUARES, on it! It took him a long time to live that one down!

So, when your over there kicking your toe against the desk, think that you made a big mistake, just think about how embarrassing it really could be!

Good Day!

73,
Scott

Need Help with APRS?
<http://www.aprshelp.com>
Need a 12v computer for APRS?
<http://www.compu-comm.com>

-----Original Message-----

From: bounce-aprsspec-14466@lists.tapir.org
[mailto:bounce-aprsspec-14466@lists.tapir.org]On Behalf Of Bob Bruninga
Sent: Thursday, October 26, 2000 6:46 AM
To: APRS Spec Discussion List
Cc: aprsspec@lists.tapir.org
Subject: [aprsspec] Grid Squares

ARGH!!!!!!! I just checked the spec, and it is wrong about grid squares.. We worked long and hard to get everyone on the same page with regard to this new format for GRID SQUARES. But now I see that the implementation of the wording in the spec, put it in the wrong place. Of course it is entirely my fault for not finding this prior to publication...

It is under the MIC-E heading and this is completely incorrect. It has nothing to do with the Mic-E. It was supposed to replace the "MAIDENHEAD" section on page 33. It has nothing to do with the Mic-E on page 55!

No wonder everyone is confused... ARGH...

The preferred format for GRID SQUARES is >GG##GG/\$...

The reason for this is because it *can be received on a THD7 or D700* and because it permits the inclusion of ICONS which the older [GG##GG] did not. Maps without ICONS are quite uninteresting... Mobiles and HT's that cannot receive grids are also a disadvantage...

I don't know what we do officially about this mixup, but everyone with a THD7 or D700 would probably prefer that grid reports be in this format so they can receive them and not be left in the dark... Unfortunately, they will not be "decoded" as an actual posit, but they will be "received". The [] format will not even be received...

For backwards compatibility, I will put the [GG##gg] format back into APRSdos for the upcoming Meteor Shower activities. But it will leave out everyone that could try a new first.... Moible or HT MS!

Bob

You are currently subscribed to aprsspec as: kc5jgv@arrl.net
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: wallou@taprr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@taprr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: wallou@taprr.org

From bounce-aprsspec-11589@lists.taprr.org Thu Oct 26 11:01:36 2000
Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19504
for <lyris.aprsspec@taprr.org>; Thu, 26 Oct 2000 11:01:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 26 Oct 2000 12:00:06 -0400 (EDT)
From: Bob Bruninga <bruninga@nadn.navy.mil>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.taprr.org>
cc: "Ev Tupis (W2EV)" <propnet@greeceny.com>,
Robert Bruninga <bruninga@arctic.usna.edu>, aprsspec@lists.taprr.org
Subject: [aprsspec] Re: APRSdos Meteor Mode.. OK
In-Reply-To: <ZejVpsAlvD+5Ew\$+@peaksys.co.uk>
Message-ID: <LYR11589-116598-2000.10.26-11.10.10--
lyris.aprsspec#taprr.org@lists.taprr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10010261155090.239-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob said:

> > Maiden head locator was put under the MIC-E heading and this is ...
> > incorrect. It was supposed to replace the "MAIDENHEAD" section on page
> > 33. It has nothing to do with the Mic-E!
>

Roger replied: > It's also in the Status Reports section on page 82.

OK, I was wrong and confused as well by the (now) 3 different references to the GRID-SQUARE Format. So I guess it is OK as written, but misleading. I would have preferred that the page 33 reference INCLUDE the >GG##gg/\$ format as well with the note that it is the only grid format receivable by the Kenwoods...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 6 07:02:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA19804
for <lyris.aprsspec@tapr.org>; Mon, 6 Nov 2000 07:02:27 -0600 (CST)
Message-ID: <LYR11589-118388-2000.11.06-07.09.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 6 Nov 2000 12:58:33 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Weather reports...
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <U37GjKA5rqB6EwYV@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The following comment occurs on page 64 of the spec in the "Positionless Weather Data" section:-

"Note: The weather report must include at least the MDHM date/timestamp, wind direction, wind speed, gust and temperature, but the remaining parameters may be in a different order (or may not even exist)."

The way the spec is written, that comment appears to only apply to "Position Weather Reports", but is it in fact also supposed to apply to "Complete Weather Reports"?

The reason I ask is that it has been reported to me that the Kenwood radios appear not to recognise a "Complete Weather Report" unless it contains a gust value. Without the gust value they regard it as being a mobile station. (Note - I haven't verified this myself, because I don't own a Kenwood.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 6 07:41:24 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA22659
for <lyris.aprsspec@tapr.org>; Mon, 6 Nov 2000 07:41:23 -0600 (CST)
Date: Mon, 6 Nov 2000 7:38:34
Subject: [aprsspec] Re: Weather reports...
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Roger Barker" <roger@peaksys.co.uk>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-118390-2000.11.06-07.48.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 11/06/00, "Roger Barker <roger@peaksys.co.uk>" wrote:
[snip]
> "Position Weather Reports", but is it in fact also supposed to apply to
^^^^^^ Typo! Should, of course, be "Positionless".

Roger, G4IDE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 6 09:42:56 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA06434
for <lyris.aprsspec@tapr.org>; Mon, 6 Nov 2000 09:42:55 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 6 Nov 2000 10:39:32 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Weather reports... (fwd)
Message-ID: <LYR11589-118416-2000.11.06-09.50.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10011061037440.15394-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Nov 2000, Roger Barker wrote:

> on page 64 of the spec in the "Positionless Weather Data" section:-
>
> "Note: The weather report must include at least the MDHM date/timestamp,
> wind direction, wind speed, gust and temperature, but the remaining
> parameters may be in a different order (or may not even exist)."
>
> ... does it also apply to "Complete Weather Reports"?
>
> ... Kenwood radios appear not to recognise a "Complete Weather Report"
> unless it contains a gust value. Without the gust value they regard it
> as being a mobile station...

Yes, in general, in order to ignore all the WinAPRS WX stations that are sending weatherless positions, the presence of the "t" and "g" are used as verifiers of weather data included within a "complete" wx report.

de WB4APR< Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 6 10:55:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA12420
for <lyris.aprsspec@tapr.org>; Mon, 6 Nov 2000 10:55:51 -0600 (CST)
Message-ID: <LYR11589-118435-2000.11.06-11.05.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 6 Nov 2000 16:54:37 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Weather reports...
References: <LYR11586-118388-2000.11.06-07.09.42--
bruninga#nadm.navy.mil@lists.tapr.org>

<Pine.GS0.4.05L.10011061022330.15394-1000000@arctic>
In-Reply-To: <Pine.GS0.4.05L.10011061022330.15394-1000000@arctic>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8z2MyhANJuB6EwdV@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <Pine.GS0.4.05L.10011061022330.15394-1000000@arctic>, Bob
Bruninga <bruninga@usna.edu> writes
>On Mon, 6 Nov 2000, Roger Barker wrote:
>> The following comment occurs on page 64 of the spec in the "Positionless
>> Weather Data" section:-
>> "Note: The weather report must include at least the MDHM date/timestamp,
>> wind direction, wind speed, gust and temperature, but the remaining
>> parameters may be in a different order (or may not even exist)."
>> The way the spec is written, that comment appears to only apply to
>> "Position Weather Reports", but is it in fact also supposed to apply to
>> "Complete Weather Reports"?
[snip to keep the list server happy]
>Yes, in general, in order to ignore all the WinAPRS WX stations that are
>sending weatherless positions, the presence of the "t" and "g" are used as
>verifiers of weather data included within a "complete" wx report.

I could appreciate that, except that only the Kenwood radios seem to be
ignoring it. The format of the beacons in question is:-

=5258.24N/00002.76W_000/000t050r000P035h93b09750

I'm *told* that the Kenwoods regard that as being a mobile station, and
ignore the weather data. (DOS APRS and WinAPRS both regard it as a wx
station, and interpret the data as a wx report.)

However, I was really asking about what that section of the spec is
supposed to be saying. If it is supposed to be saying that the 'g' and
't' requirement applies to "Complete Weather Reports", then, to me, the
way it is currently worded doesn't say that, because the requirement is
embedded in "Positionless Weather Data" inside "Positionless Weather
Reports".

I asked the question because, at the moment, I suppress the gust field
in the weather report if the wind speed is zero. I was quite surprised
to be told that the Kenwood radios don't regard such reports as being
weather data. I then looked at the spec, and concluded that what I was

doing was ok...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 6 12:52:46 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA01110
for <lyris.aprsspec@tapr.org>; Mon, 6 Nov 2000 12:52:45 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 6 Nov 2000 13:49:55 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Weather reports...
In-Reply-To: <LYR11586-118435-2000.11.06-11.05.23--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-118443-2000.11.06-13.00.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10011061343250.10405-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Nov 2000, Roger Barker wrote:

> >Yes... in order to ignore all the WinAPRS WX stations that sending
> >WX-less posits, the "t" and "g" are used as verifiers...
>
> I could appreciate that, except that only the Kenwood radios seem to be
> ignoring it. The format of the beacons in question is:-
> =5258.24N/00002.76W_000/000t050r000P035h93b09750
> I'm *told* that the Kenwoods regard that as being a mobile station, and

> ignore the weather data. (DOS APRS and WinAPRS both regard it as a wx
> station, and interpret the data as a wx report.)

Yes, it is because of this ambiguity that we put that statement in the spec. Prior to such a spec, we all had our own little tricks for determining if the WinAPRS packet had valid WX data or not. Most of us still probably use whatever code we already had. Kenwood requires the "g" and the "t" as we meant to codify in the spec. APRSdos requires either a "g" *or* a "t". In any case, the best way to assure its valid WX is to require both the "t" and the "g" in the right places...

> However, I was really asking about what that section of the spec is
> supposed to be saying. If it is supposed to be saying that the 'g' and
> 't' requirement applies to "Complete Weather Reports", then, to me, the
> way it is currently worded doesn't say that, because the requirement is
> embedded in "Positionless Weather Data" inside "Positionless Weather
> Reports".

Yes, it should apply to both. That should be fixed in the next version...
Ian?

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 7 22:29:37 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA04866
for <lyris.aprsspec@tapr.org>; Tue, 7 Nov 2000 22:29:37 -0600 (CST)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-118634-2000.11.07-22.37.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 07 Nov 2000 23:27:36 -0500
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Reply-To: quesnelb@ve2.ele.etsmtl.ca
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Invalid packet
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A08D638.75240329@ve2.ele.etsmtl.ca>
Precedence: bulk

Hi to all,

I've been running my server for a little while and looking at the packets that are being refused, many of them are preceded by the "cmd:" string and then a valid packet (after a quick look at the following packet).

Would it be sound to remove the leading "cmd:" string in front of a packet, then retreat the packet to see if it's valid or still reject it because it is bad.....

Thanks in advance

--

Bruno Quesnel	va2bmg@videotron.ca
Genie Electrique	quesnelb@ve2.ele.etsmtl.ca
Electrical Engineering	VA2BMG
Ecole de Technologies Superieure	http://www.findu.com/cgi-bin/find.cgi?va2bmg

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 09:27:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA13728
for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 09:27:52 -0600 (CST)
X-Server-Uuid: 7edb479a-fd89-11d2-9a77-0090273cd58c
Message-ID: <LYR11589-118698-2000.11.08-09.35.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Pendley, Michael" <mycall@sandia.gov>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] So what does a D7(a)g supportD7(a)g
Date: Wed, 8 Nov 2000 08:24:24 -0700
MIME-Version: 1.0
X-WSS-ID: 1617AFBB261258-01-01

Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <77349FC5DC1CD211BAD900805FA7241A09774562@es01sn1nt.sandia.gov>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The tracker I am developing seems to work -- but not with a D7(a)g in APRS mode.

The packet format is a simple "no timestamp lat/long position report" (second page of chapter 8 -- page 32 of draft 1.0.1m) with course/speed in the data extension.

Packet transmission seems to be OK (i.e. bit timing, X-25 format, etc) since the packet gets through the D7 just fine when the TNC is put in packet mode and my local DIGI repeats the packet.

The APRS data seems to be formatted correctly since APRS+SA is happy with what comes out of the D7 (in packet mode) and I show up on findu.com.

The only problem seems to be the D7 ignoring the packet when the TNC is in APRS mode. This makes me think the D7 is expecting a different APRS data message syntax -- or maybe does not support this type of report.

Before I go into "try stuff until it works" mode I thought I would see if anyone knows if there is an FAQ or a compilation of D7 caveats and what the D7 does and does not support.

Thanks in advance.

-Mike, K5ATM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 09:49:07 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16670
for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 09:49:05 -0600 (CST)
X-Originating-IP: [137.195.174.11]
Reply-To: asena@bigfoot.com
From: "Antonio Sergio Sena" <aserginho@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] D7 problem with APRS tracker
Date: Wed, 08 Nov 2000 15:46:48 WET
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-118707-2000.11.08-09.56.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 08 Nov 2000 15:46:48.0659 (UTC)
FILETIME=[1AE8B230:01C0499B]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <F40qpvFpKyeMgYynMsy000064af@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>The only problem seems to be the D7 ignoring the packet when the TNC is in
>APRS mode. This makes me think the D7 is expecting a different APRS data
>message syntax -- or maybe does not support this type of report.
>

Interesting...

The same is happening to me. I developed a WX APRS station, that you connect
direct to the radio. Completely autonomous.

The IGate's recognize, the users recognize, the D7 in TNC mode recognizes,
but when you change the D7 to APRS it doesnt hear nothing.

I thought i was having any glitch with my code. Perhaps there are some bits
swapped, that D7 doesnt recognize.

Interesting to know that finally someone stucked in the same problem.

Cheers!

73 de CT2GPW

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at
<http://profiles.msn.com>.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 09:50:53 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16912
for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 09:50:50 -0600 (CST)
Message-ID: <LYR11589-118708-2000.11.08-10.00.27--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 8 Nov 2000 15:50:04 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Reply-To: Roger Barker <roger@peaksys.fsbusiness.co.uk>
Subject: [aprsspec] Re: So what does a D7(a)g supportD7(a)g
References: <LYR13460-118698-2000.11.08-09.35.10--
roger@peaksys.fsbusiness.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-118698-2000.11.08-09.35.10--
roger@peaksys.fsbusiness.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <ga9bIXAsYXC6Ew0q@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-118698-2000.11.08-09.35.10--roger@peaksys.fsbusiness.co.uk@lists.tapr.org>, Pendley, Michael <mycall@sandia.gov> writes
>The tracker I am developing seems to work -- but not with a D7(a)g in APRS
>mode.
Etc...

Could you post a sample of a frame from the tracker, as received on
another system?

--

Roger Barker, G4IDE - roger@peaksys.fsbusiness.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.fsbusiness.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 09:58:48 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA17523
for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 09:58:45 -0600 (CST)
X-Originating-IP: [137.195.174.11]
Reply-To: asena@bigfoot.com
From: "Antonio Sergio Sena" <aserginho@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: So what does a D7(a)g supportD7(a)g
Date: Wed, 08 Nov 2000 15:57:48 WET
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-118709-2000.11.08-10.07.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 08 Nov 2000 15:57:48.0315 (UTC)
FILETIME=[A41836B0:01C0499C]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F14eeFUtLch9wPiyAph00006556@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>Could you post a sample of a frame from the tracker, as received on
>another system?
>

Hy!

I am sorry, but i cant.
I am presently in Edinburgh, and all my stuff is in Portugal...
If there is other thing i can provide??

Cheers!

73 de CT2GPW

Antonio Sergio Sena
BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh
www.qsl.net/ct2gpw

Get Your Private, Free E-mail from MSN Hotmail at <http://www.hotmail.com>.

Share information about yourself, create your own public profile at
<http://profiles.msn.com>.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 12:30:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04869
for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 12:30:24 -0600 (CST)
X-Server-Uuid: 7edb479a-fd89-11d2-9a77-0090273cd58c
Message-ID: <LYR11589-118726-2000.11.08-12.38.19--
lyris.aprsspec@tapr.org>
From: "Pendley, Michael" <mycall@sandia.gov>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: So what does a D7(a)g support
Date: Wed, 8 Nov 2000 11:28:02 -0700
MIME-Version: 1.0
X-WSS-ID: 161744B0291747-01-01
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <77349FC5DC1CD211BAD900805FA7241A09774564@es01snlnt.sandia.gov>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

At work now but I will post a frame tomorrow morning.

Thanks for your interest.

-Mike

-----Original Message-----

From: Roger Barker [mailto:roger@peaksys.co.uk]

Sent: November 08, 2000 8:50 AM

To: APRS Spec Discussion List

Subject: [aprsspec] Re: So what does a D7(a)g supportD7(a)g

In article <LYR13460-118698-2000.11.08-09.35.10--roger#peaksys.fsbusiness.co.uk@lists.tapr.org>, Pendley, Michael <mycall@sandia.gov> writes
>The tracker I am developing seems to work -- but not with a D7(a)g in APRS
>mode.
Etc...

Could you post a sample of a frame from the tracker, as received on another system?

--

Roger Barker, G4IDE - roger@peaksys.fsbusiness.co.uk

For UI-View go to - <http://www.packetradio.org.uk>

For WinPack go to - <http://www.peaksys.fsbusiness.co.uk>

You are currently subscribed to aprsspec as: mycall@sandia.gov

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 8 15:00:46 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA25585

for <lyris.aprsspec@tapr.org>; Wed, 8 Nov 2000 15:00:42 -0600 (CST)

Message-Id: <LYR11589-118737-2000.11.08-15.10.19--

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 08 Nov 2000 14:59:53 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Invalid packet
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sa096a70.046@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA25585

>>> Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca> 11/08/00 09:25AM >>>

>Bruno wrote:

>Just out of curiosity, what software are you writing ?

I am writing a windows based tracking/mapping program. The current windows based programs just don't work the way I would like them to, or have quirks that make them a pain to use. I figured I could spend my time griping, or write something I like.

Our local amateur radio club supports the annual MS-150 bike-a-thon (Multiple Sclerosis), SkyWarn, and other events and I wanted something better suited for "real time" asset tracking. I actually wrote a utility for one of the popular programs to refresh the screen every 3 seconds because we couldn't figure out which parameter or configuration setting to change to eliminate "vapor" trails. I wanted something that...

- Supported readily available maps in VECTOR based formats
- Movement in "real time", no vapor trails, object permanence is adjustable
- Map features, map layers and labels easily added or removed
- True 32 Bit Windows program with all the gadgets I normally expect; right click etc.

Because I don't have DOS memory constraints there are no significant limitations on the number of points or labels in a single DOS map. "Objects" move without leaving trails and the maps can be resized or zoomed easily. Additional label points can be added without a problem. Long way to go, but making progress...

Now if I could just come up with all those darn icons...

Regards,

Rich - Wn0x

P.S. The issue I had with the "cmd:cmd:cmd:cmd:" is that I wasn't checking for this possibility and my line parser was trying to treat it as an object.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 09:16:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA20400
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 09:16:13 -0600 (CST)
X-Server-Uuid: 7edb479a-fd89-11d2-9a77-0090273cd58c
Message-ID: <LYR11589-118856-2000.11.09-09.22.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Pendley, Michael" <mycall@sandia.gov>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: So what does a D7(a)g support
Date: Thu, 9 Nov 2000 08:10:26 -0700
MIME-Version: 1.0
X-WSS-ID: 161461F8366945-01-01
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <77349FC5DC1CD211BAD900805FA7241A0977456C@es01snlnt.sandia.gov>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

So here is the output from my TNC:

K5ATM>SOTT10,WIDE3-3:!3505.52N\10628.95W\$000/000

I did a little "try stuff until it works" last night and found if I change the destination address (used as a software version number) from SOTT10 to

something more familiar -- APS199 -- and the D7 was quite happy! I got a beep and my packet was entered on the message list.

Went back and looked at the protocol again and did not see any reason why a software version number of the form SOTT10 would be a bad idea. I did notice that all the software version number examples in the protocol document started with the letter "A" so I changed SOTT10 to AOTT10. The D7 still did not accept the packet in APRS mode.

So, it looks like the D7 is using information in the destination address to decide if a packet is a legal APRS packet -- and APS199 passes the test but SOTT10 does not. What am I missing?

Thanks for any help.

-Mike, K5ATM

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@usna.edu]

Sent: November 08, 2000 3:36 PM

To: Pendley, Michael

Subject: Re: [aprsspec] So what does a D7(a)g supportD7(a)g

Show us the packet and we can tell in a jiff.

"a packet is worth a thousand words"...

bob

On Wed, 8 Nov 2000, Pendley, Michael wrote:

> The tracker I am developing seems to work -- but not with a D7(a)g in APRS
> mode.

>

> The packet format is a simple "no timestamp lat/long position report"
> (second page of chapter 8 -- page 32 of draft 1.0.1m) with course/speed in
> the data extension.

>

> Packet transmission seems to be OK (i.e. bit timing, X-25 format, etc)
since

> the packet gets through the D7 just fine when the TNC is put in packet

mode

> and my local DIGI repeats the packet.

>

> The APRS data seems to be formatted correctly since APRS+SA is happy with
> what comes out of the D7 (in packet mode) and I show up on findu.com.

>

> The only problem seems to be the D7 ignoring the packet when the TNC is in
> APRS mode. This makes me think the D7 is expecting a different APRS data
> message syntax -- or maybe does not support this type of report.

>

> Before I go into "try stuff until it works" mode I thought I would see if
> anyone knows if there is an FAQ or a compilation of D7 caveats and what
the

> D7 does and does not support.

>

> Thanks in advance.

>

> -Mike, K5ATM

>

>

>

> ---

> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

>

>

APRSDOS REPLY/COMMENT:

Reply mail addr: wb4apir@amsat.org

US mail address: 115 old Farm Ct, Glen Burnie, MD 21060

See DAYTON97 HISTORY: <http://web.usna.navy.mil/~bruninga/dayton.html>

See Maryland APRS LIVE: <http://web.usna.navy.mil/~bruninga/aprs.html>

See GPS on ANY radio: <http://www.tapir.org/tapir/html/mic-e.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Thu Nov 9 11:14:26 2000

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])

by tapir.org (8.9.3/8.9.3/1.13) with SMTP id LAA01397

for <lyris.aprsspec@tapir.org>; Thu, 9 Nov 2000 11:14:26 -0600 (CST)

Message-Id: <LYR11589-118867-2000.11.09-11.24.06--

lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] WAP Jumpstart
Date: Thu, 9 Nov 2000 12:09:06 -0500
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200011091710.JAA11246@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Anyone with any experience with WAP or HDML3? I just got a sprint PCS and want to add support to findu, but the developers docs seem needlessly dense for my application. All I need to start is the markup for a simple text page.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 11:33:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05146
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 11:33:15 -0600 (CST)
Date: Thu, 9 Nov 2000 11:29:47 -0600
Message-Id: <LYR11589-118868-2000.11.09-11.40.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] RE: So what does a D7(a)g support
X-IPAddress: 204.248.115.61
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200011091729.LAA21590@dm.deskmedia.com>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Mike,

I have noticed what you described too. I have found apk001 to work okay, I think. I would have expected Kenwood to fix this in the G version, but I guess they did not.

-James Jefferson KB0THN

> So here is the output from my TNC:
>
> K5ATM>SOTT10,WIDE3-3:!3505.52N\10628.95W\$000/000
>
> I did a little "try stuff until it works" last night and found if I change
> the destination address (used as a software version number) from SOTT10

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 11:42:29 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06614
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 11:42:29 -0600 (CST)
Message-Id: <LYR11589-118869-2000.11.09-11.49.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] RE: So what does a D7(a)g support
Date: Thu, 9 Nov 2000 12:37:49 -0500
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200011091739.JAA24594@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 11/9/00 12:29 PM James Jefferson (jjeffers@deskmedia.com) wrote:

>I have noticed what you described too. I have found apk001 to work okay,
>I think. I would have expected Kenwood to fix this in the G version, but
>I guess they did not.

>

It isn't a bug, see page 23 of the spec, AP* is a supported prefix, A* is not...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 12:35:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12858
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 12:35:14 -0600 (CST)
X-Server-Uid: 7edb479a-fd89-11d2-9a77-0090273cd58c
Message-ID: <LYR11589-118877-2000.11.09-12.45.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Pendley, Michael" <mycall@sandia.gov>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: So what does a D7(a)g support
Date: Thu, 9 Nov 2000 11:34:38 -0700
MIME-Version: 1.0
X-WSS-ID: 161431C4400884-01-01
Content-Type: text/plain;
charset=iso-8859-1
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <77349FC5DC1CD211BAD900805FA7241A0977456E@es01snlnt.sandia.gov>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve, Bob -- thanks

In hindsight it all makes sense. For what it is worth, here is how I got lost. Maybe the info will be useful in a future version of the protocol document.

Chapter 4 describes the Destination address. The first section gives a list

of 5 types of destination call signs. One is a generic APRS call sign (which are listed in the next section) and one is an APRS software version number. I read this as a list of independent categories -- not that some were subsets of the others. That is, I did not make the association that a software version number was a type of generic call sign -- specifically the AP* generic call sign. I think, in fact, there are really 3 types of destination call signs -- Generic, Mic-E, and ALTNET with the caveat that Generic has three sub types -- with a symbol, without a symbol, and software version number.

This thinking was reinforced by the fact that there is a section on generic APRS callsigns and a separate section on APRS Software Version Numbers with no linkage between them. The fact that AP* is the generic destination callsign used for software version numbers is implicit with the examples but an explicit statement to that effect would have saved me.

Finally, the section on Alternate Net Callsign states that any other callsign not included in the specific generic list or the other categories mentioned above may be used in Alternate Nets. When I read this I assumed that my SOTT10 call sign was not a generic APRS callsign but WAS one of the other categories mentioned above -- specifically a software version number. However, if I had stopped to think how one would implement a system it would have been obvious that it would be impossible to tell the difference between my interpretation of a software version number and an alternate net callsign.

So like I said, it all makes sense in hindsight and I appreciate the education. It seems like others have run into the same problem so I wonder if others followed the same path. If so, I would like to suggest that in some future release of the protocol spec that the use of AP* be explicitly stated. This could be a short sentence below the table of generic callsigns where callsigns like DGPS are explicitly mentioned. Another possibility would be to add a sentence to the paragraph before the software version number examples -- i.e. add "The generic destination callsign AP* is used to specify software version numbers" before the sentence "The following software version types are reserved ..."

I wonder if short descriptions of the other generic call signs should also be included. Some are obvious (at least to me) -- like WX*. Others are not so obvious.

Thanks again

73

-Mike, K5ATM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 15:09:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA01281
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 15:09:43 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 9 Nov 2000 16:08:03 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: So what does a D7(a)g support
In-Reply-To: <LYR11586-118868-2000.11.09-11.40.44--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-118886-2000.11.09-15.19.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10011091605280.23663-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> I have noticed what you described too. I have found apk001 to work okay,
> I think. I would have expected Kenwood to fix this in the G version, but
> I guess they did not.

It aint broke. The TO ADDRESS is limited to specific addresses according
to the SPEC. Software version numbers beginning with AP are OK. Other
callsigns beginnning with anything else are supposed to be ignored except
for a few BEACON type exceptions.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Nov 9 17:04:37 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15677
for <lyris.aprsspec@tappr.org>; Thu, 9 Nov 2000 17:04:35 -0600 (CST)
Message-ID: <LYR11589-118899-2000.11.09-17.12.01--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-118886-2000.11.09-15.19.15--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] RE: So what does a D7(a)g support
Date: Thu, 9 Nov 2000 15:01:45 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <002f01c04aa1\$092b5a00\$8792b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id RAA15677

> > I have noticed what you described too. I have found apk001 to work okay,
> > I think. I would have expected Kenwood to fix this in the G version, but
> > I guess they did not.
>
> It aint broke. The TO ADDRESS is limited to specific addresses according
> to the SPEC. Software version numbers beginning with AP are OK. Other
> callsigns beginnning with anything else are supposed to be ignored except
> for a few BEACON type exceptions.
>
> bob

Except that every Mic-E packet violates the ALTNET spec.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 9 17:45:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20575
for <lyris.aprsspec@tapr.org>; Thu, 9 Nov 2000 17:45:42 -0600 (CST)
Message-Id: <LYR11589-118902-2000.11.09-17.53.01--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] WAP available thru findu.com
Date: Thu, 9 Nov 2000 18:39:15 -0500
From: Steve Dimse <sdimse@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200011092342.PAA04501@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

If you have a phone that does HDML 3.0, try this:

<http://www.findu.com/cgi-bin/wap.cgi/?k4hg-8>

I've tried this on my Motorola Star-Tac, and on a simulator for most of the WAP phones, but I'd love to hear reports of how your phone works.

Steve K4HG

(could someone forward this to aprssig for me?)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 10 10:10:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29274

for <lyris.aprsspec@tapr.org>; Fri, 10 Nov 2000 10:10:57 -0600 (CST)
Message-ID: <LYR11589-118993-2000.11.10-10.20.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 10 Nov 2000 09:09:25 -0700
From: Tate <kc7zru@arrl.net>
Reply-To: kc7zru@arrl.net
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: WAP available thru findu.com
References: <LYR19726-118902-2000.11.09-17.53.01--kc7zru#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3A0C1DB5.866E9542@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Done Steve,

Mmm - maybe we aught sign up a volunteer "Official Forwarder" for you,
eh?

73

Steve Dimse wrote:

>
> If you have a phone that does HDML 3.0, try this:
>
> <http://www.findu.com/cgi-bin/wap.cgi/?k4hg-8>
>
> I've tried this on my Motorola Star-Tac, and on a simulator for most of
> the WAP phones, but I'd love to hear reports of how your phone works.
>
> Steve K4HG
>
> (could someone forward this to aprssig for me?)
>

--

\/
| No Longer in Laramie | Now in Casper |

```
| CARC Repeater 146.640(-) |          DN62uu          |
| ICQ/ICU# 82711454      | eGroups.com/RM-APRS |
| "The Dungeon" online at http://go.to/KC7ZRU |
+*****+
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 10 11:01:29 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05797
for <lyris.aprsspec@tapr.org>; Fri, 10 Nov 2000 11:01:25 -0600 (CST)
Message-ID: <LYR11589-119007-2000.11.10-11.10.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] ADMIN: Monthly Reminder
Date: Fri, 10 Nov 2000 10:31:35 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <8204E40F8922D411A0C10008C7A42AC223597E@MRDNEXCH01>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like "what kind of printer should I buy to print out my copy of the APRS specification?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.
- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 10 14:49:01 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA07865
for <lyris.aprsspec@tappr.org>; Fri, 10 Nov 2000 14:49:00 -0600 (CST)
Date: Fri, 10 Nov 2000 12:46:45 -0800
Message-Id: <LYR11589-119037-2000.11.10-14.56.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Type: text/plain
Content-Disposition: inline
Content-Transfer-Encoding: binary
Mime-Version: 1.0
X-Originating-Ip: [208.176.108.9]
From: "Bill Reed" <transit_man@my-deja.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] test - ignore
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200011102046.MAA08567@mail23.bigmailbox.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

ignore

--== Sent via Deja.com <http://www.deja.com/> ==--
Before you buy.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Nov 13 12:11:07 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA03954
for <lyris.aprsspec@tappr.org>; Mon, 13 Nov 2000 12:11:05 -0600 (CST)
Message-Id: <LYR11589-119507-2000.11.13-12.18.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Web Phone access to findu.com
Date: Mon, 13 Nov 2000 13:07:18 -0500
From: Steve Dimse <sdimse@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200011131807.KAA26700@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In order to decrease the amount of (painful) text entry into the phones,
I've set up a new virtual server strictly for WAP access, with a more
direct URL. To access the find cgi:

wap.findu.com/find?k4hg-8

I have the weather cgi online as well now:

wap.findu.com/wx?k4hg

I plan on porting over all the findu cgis (at least those that make sense
for phone access) eventually. Suggestions are welcome...

Steve K4HG

And as always, can someone forward this to the aprssig?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Nov 13 12:22:13 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04949
for <lyris.aprsspec@tappr.org>; Mon, 13 Nov 2000 12:22:12 -0600 (CST)
Message-Id: <LYR11589-119508-2000.11.13-12.29.30--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 13 Nov 2000 12:18:14 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Icons? GPS Spec?
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sa0fdc23.005@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id MAA04949

- Does anyone know if the icons for the symbol lists are available anywhere? I would rather not duplicate them if I don't have to, but don't want any copyright issues associated with "borrowing" them from existing APRS applications.

- Does anyone know where I can get documentation on the NMEA 0183 sentence specifications? I have the Mic-E, Positional and Compressed formats working, but need to add the \$G formats.

Thanks,

Rich Beckwith - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Nov 13 12:54:02 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA08415
for <lyris.aprsspec@tappr.org>; Mon, 13 Nov 2000 12:54:01 -0600 (CST)
Message-Id: <LYR11589-119519-2000.11.13-13.01.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 13 Nov 2000 12:50:42 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Icons? GPS Spec?
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <sa0fe3c1.021@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id MAA08415

After reviewing a lot of logs, the "truck", "car", "jeep", "weather" and "digi" icons come up the most, but there are many more to go after that. Seems a waste of time to re-create them, especially since most folks are used to seeing a particular icon.

Thanks for the GPS info.

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Nov 13 13:09:31 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA10361
for <lyris.aprsspec@tappr.org>; Mon, 13 Nov 2000 13:09:30 -0600 (CST)
Date: Mon, 13 Nov 2000 11:06:44 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Icons? GPS Spec?
In-Reply-To: <LYR12892-119508-2000.11.13-12.29.30--
hacker#tc.fluke.com@lists.tappr.org>
Message-ID: <LYR11589-119521-2000.11.13-13.17.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.10.10011131102410.7329-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 13 Nov 2000, Rich Beckwith wrote:

> - Does anyone know where I can get documentation on the NMEA 0183 sentence specifications? I have the Mic-E, Positional and Compressed formats working, but need to add the \$G formats.

Those are available in the spec, which costs money.
As an alternative, a couple of us have figured out the formats of many of the sentences, and it is implemented in a Perl decoder program at:

<ftp://ftp.eskimo.com/u/a/archer/gps/gps.pl/>

The format of each sentence is easy to figure out from the Perl code. Each sentence has it's own section. The code is free (GPL'ed).

Enjoy,

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From: bounce-aprsspec-11589@lists.tapr.org Tue Nov 14 05:49:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA08043
for <lyris.aprsspec@tapr.org>; Tue, 14 Nov 2000 05:49:42 -0600 (CST)
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: ubrogna@tin.it
Reply-To: ubrogna@tin.it
Subject: [aprsspec] No Nmea data with Magellan 410&KenwoodThd7e
MIME-Version: 1.0
Content-Type: text/plain
Message-Id: <LYR11589-119653-2000.11.14-05.57.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 14 Nov 2000 12:46:47 +0100
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20001114114647.QXHH23151.fep03-svc.tin.it@fep12-svc.tin.it>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I tried to use the Gps Magella 410 unsuccessfully. Is it a voltage problem ?
I choosed everyone of the Nmea settings. Did anybody use Magellan ? somebody
tells that an adaptatar is needed.

Thank You

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 14 09:09:34 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA25097
for <lyris.aprsspec@tapr.org>; Tue, 14 Nov 2000 09:09:31 -0600 (CST)
Message-ID: <LYR11589-119679-2000.11.14-09.17.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 14 Nov 2000 07:07:12 -0800 (PST)
From: James Wagner <ka7ehk@yahoo.com>
Subject: [aprsspec] What is WAP?
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20001114150712.1830.qmail@web903.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

When I tried to connect to the URL Steve gave about a week
ago, my browser said something like "unable to execute WAP".

What is WAP?

Jim, KA7EHK

Do You Yahoo!?

Yahoo! Calendar - Get organized for the holidays!
<http://calendar.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 14 09:41:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA29160
for <lyris.aprsspec@tapr.org>; Tue, 14 Nov 2000 09:41:24 -0600 (CST)
Message-Id: <LYR11589-119682-2000.11.14-09.49.28--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: What is WAP?
Date: Tue, 14 Nov 2000 10:36:16 -0500
x-sender: sdimse@findu.com
From: Steve Dimse K4HG <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200011141538.PAA09075@www.findu.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 11/14/00 10:07 AM James Wagner (ka7ehk@yahoo.com) wrote:

>When I tried to connect to the URL Steve gave about a week
>ago, my browser said something like "unable to execute WAP".
>
>What is WAP?
>

Wireless application protocol. It is used for internet enabled PCS phones, basically a binary version of simplified HTML. Your phone connects to a wap gateway, which in turn connects to normal web servers. However, the documents are written in either HDML (handheld device markup language) or WML (wireless markup language, derived from HDML and XML), and cannot be viewed in normal web browsers.

There is nothing on my wap server that isn't available on my regular pages, but if you want to see what it looks like and don't have a WAP phone, you can download a development kit from phone.com (they make the

wap gateways) for free which includes a simulator that runs under Windows or Solaris. Make sure you get the HDML 3 version, not the WML version if your goal is to see my pages.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 21 03:47:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA07309
for <lyris.aprsspec@tapr.org>; Tue, 21 Nov 2000 03:47:59 -0600 (CST)
Date: Tue, 21 Nov 2000 3:36:48
Subject: [aprsspec] Who release APRS Software Version Number?
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Marco Savegnago" <m-save@tin.it>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-120705-2000.11.21-03.56.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

Hello, I'm the author of UIDIGI the APRS digipeater firmware for TNC2.
Actually I'm using as software version number the experimental destination APZxxx.
Now that the code has overcome the experimental phase, is considered stable and is used from several digipeater sysop around the world I want to obtain a reserved APRS Software Version Number for it.

Whoever knows who release these numbers?

Thank you in advance.

Marco IW3FQG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Nov 29 17:15:35 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA08641
for <lyris.aprsspec@tappr.org>; Wed, 29 Nov 2000 17:15:33 -0600 (CST)
Message-Id: <LYR11589-122101-2000.11.29-17.23.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] findu.com web entry
Date: Wed, 29 Nov 2000 18:10:31 -0500
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200011292310.eATNAj325360@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

People have been asking for the ability to enter positions directly via the web. I have resisted, because of the need to manually maintain user accounts. I have now created an automatic system to do the admin, and a cgi to do the data entry. I'd like to put it out for beta test to the people on this list before I open it up to the general community.

You can read more about it and request an account at:

<http://www.findu.com/account.html>

and more about how to enter positions once an account is active at:

<http://www.findu.com/input.html>

Comments welcome...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Nov 29 19:48:02 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA00264
for <lyris.aprsspec@tapr.org>; Wed, 29 Nov 2000 19:48:00 -0600 (CST)
Date: Thu, 30 Nov 2000 01:42:53 GMT
Message-Id: <LYR11589-122111-2000.11.29-19.56.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: findu.com web entry
From: Carl Littlejohns <carl_mail@dr.com>
Reply-To: carl_mail@dr.com
Mime-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
In-Reply-To: <LYR13751-122101-2000.11.29-17.23.06--
carl_mail#dr.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <VA.00000196.01b7f0c7@study>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I assume there is no direct relationship between findu and www.aprs.com which
give the same visual display.

Carl GW0TQM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 29 19:48:41 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA00312
for <lyris.aprsspec@tapr.org>; Wed, 29 Nov 2000 19:48:41 -0600 (CST)
Date: Thu, 30 Nov 2000 01:42:51 GMT
Message-Id: <LYR11589-122112-2000.11.29-19.59.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: findu.com web entry
From: Carl Littlejohns <carl_mail@dr.com>
Reply-To: carl_mail@dr.com

Mime-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
In-Reply-To: <LYR13751-122101-2000.11.29-17.23.06--
carl_mail#dr.com@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <VA.00000195.01b7f0bd@study>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Seems to work well - although clicking the top map gives you a very detailed position plot that really means that position ambiguity is a good idea.... even my local village road showed up with the cinks in the right places!

Now - what would be MOST useful IMO would be for the database to be updatable with a simple email. I can send emails from my 9110 wherever I am - much more easily than firing up a web-browser.

Just a thought.

Carl.
GWOTQM

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Nov 29 19:54:10 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA01776
for <lyris.aprsspec@tappr.org>; Wed, 29 Nov 2000 19:54:10 -0600 (CST)
Message-Id: <LYR11589-122114-2000.11.29-20.04.06--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: findu.com web entry
Date: Wed, 29 Nov 2000 20:51:44 -0500
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200011300151.eAU1p2312657@raptor.netrox.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 11/29/00 8:42 PM Carl Littlejohns (carl_mail@dr.com) wrote:

>Seems to work well - although clicking the top map gives you a very detailed
>position plot that really means that position ambiguity is a good idea....
>even my local village road showed up with the cinks in the right places!
>
>Now - what would be MOST useful IMO would be for the database to be updatable
>with a simple email. I can send emails from my 9110 wherever I am - much
>more
>easily than firing up a web-browser.
>
Already in the works...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 29 19:54:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA01789
for <lyris.aprsspec@tapr.org>; Wed, 29 Nov 2000 19:54:17 -0600 (CST)
Message-Id: <LYR11589-122115-2000.11.29-20.04.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: findu.com web entry
Date: Wed, 29 Nov 2000 20:51:53 -0500
From: Steve Dimse <sdimse@netrox.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200011300151.eAU1pB312707@raptor.netrox.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 11/29/00 8:42 PM Carl Littlejohns (carl_mail@dr.com) wrote:

>I assume there is no direct relationship between findu and www.aprs.com which
>give the same visual display.

>

aprs.com is a Canadian relocation service. If you mean aprs.net, findu is
a client of APRServe/aprsd, there is no link in the other direction.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Dec 3 06:24:18 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA06723
for <lyris.aprsspec@tappr.org>; Sun, 3 Dec 2000 06:24:17 -0600 (CST)
Message-ID: <LYR11589-122592-2000.12.03-06.32.02--
lyris.aprsspec@tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Query: Area Objects
Date: Sun, 3 Dec 2000 12:19:56 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <003901c05d23\$5a7aa700\$1401a8c0@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi All-

I am in the process of formulating a proposed extension to the protocol for mult-point lines- and I cannot resolve something in the present spec. In Chapter 11 (page 60) regarding "Area Objects" the text states

"any size from 60 feet to 100 miles".

the offset is then defined as a two digit number representing the square root of the offset in hundreths of a degree. The smallest offset (besides zero) would therefore be "01"- which my math is:

$01^2 = 1 = .01 \text{ degree} = .68703 \text{ miles}$ if we were talking about longitude at the equator = 3627 ft

Largest offset would be :

$99^2 = 9801 = 98.01 \text{ degrees} = 6732 \text{ miles}$ at the equator

I must be misintepreting the spec.

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 3 09:00:32 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA19307
for <lyris.aprsspec@tapr.org>; Sun, 3 Dec 2000 09:00:30 -0600 (CST)
Message-ID: <LYR11589-122620-2000.12.03-09.08.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Dale Huguley" <kg5qd@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Multiline Protocol Proposal Part one
Date: Sun, 3 Dec 2000 14:56:10 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000d01c05d39\$2e20e280\$1401a8c0@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi All-

This proposal is an outgrowth of my need for random multipoint line and polygon output of NWS watches and warnings. After my small talk at this years DCC where there was some discussion of this need, I sat down next to Bill Diaz who suggested making the offsets positive and negative and divorcing it from the position of the label- which solved a lot of the problems I was having thinking of a viable spec. So here goes-

(I will be refering to the Chapter 11 page 60 and 61 a lot- this will make more sense if you have a copy handy)

The present spec for area objects has enough room left in it to use the lower case "L" for the symbol. The present spec for the "T" (type) only defines 0 through 9 - leaving everything else available for other types of objects. These could be multipoint lines, polygons, singular points etc. to

be defined later.

The next character would be a "feature" character which would be how to display the object (if possible). This would consist of color, filled area, and flashing etc. and would be dependant on the display software's ability.

Next would come the "Scale" character. This hung me up for 2 weeks trying to come up with a scheme that was versitile and nailed the two scales I need the most- hundreths of a degree and tenths of a degree. The NWS uses hundreths for the "Area of Maximum Concern" output for tornados, severe thunderstoms ect. and tenths for watch boxes issued by the Severe Storms Forecast Center. It would be also useful to be able to generate a small scale map "on the fly" for something like a 10k walk or a bikeathon--- on the other end of the scale it would be nice to plot the ground track of AO-40 while it was at apogee. So the smallest is a ten-thousanth of a degree - around 10 yards or meters. Largest is about 200 miles. This is the smallest offset from the reference point for a given scale factor.

the scale is defined as scale character = (integer (log to base 10 of the scale factor relative to .0001 degree) X 20) + 33

Example: tenths of a degree would be -- scale factor = 1000 or (.0001 X 1000 = .1 degree)

log to base 10 of 1000 is 3

3 X 20 = 60

transmitted character would be 60 + 33 or ascii 93 = "]"

This means that .0001 degree = "!" .001 degree = "5" .01 degree = "I" .1 degree = "]" and 1 degree = "q"

Top of the scale would be "{" which I am loath to transmit since it generally means a message number follows-

so probably limit the scale to "z" = ascii 122 (122-33) = 89 89/20 = 4.45 which is log for 28,183 or a scale factor of 2.81 degrees or about 200 miles

end of part one

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 3 09:51:04 2000

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24225
for <lyris.aprsspec@tappr.org>; Sun, 3 Dec 2000 09:50:59 -0600 (CST)
Message-ID: <LYR11589-122630-2000.12.03-09.59.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Dale Huguley" <kg5qd@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Multi Point Protocol Part Two
Date: Sun, 3 Dec 2000 15:47:42 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001c01c05d40\$6183eda0\$1401a8c0@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

(Just noticed I miss-named the first part of this message "Multiline"
instead of "multi-point")

Now that we are all confused- lets procede:

Following the "Type" "Feature" and "Scale" characters comes a string of two
character offset sets

Each set consists of a latitude and a longitude offset character such that

Offset character = (integer (offset in degrees / scale factor)) + 78

Range is limited to 44 scale factors plus and minus from the reference for a
given scale.

Upper case "N" = ascii 78 which would mean zero offset

Lower Case "z" = ascii 122 = +44 scale factors (122 - 78 = 44)

Double Quote " " " = ascii 34 = - 44 scale factors (34 - 78 = - 44)

Since we have a two character scheme for offsets and there are anywhere from
39 to 46 characters left before the string gets too long for the network-
that means the object can have as many as 20 to 23 points (a small map!)
Remember that the points may be ends of lines, corners of polygons, or

simply points - and that they can all be offset from the reference point contained in the preceding part of the packet (either compressed or full position report) This means that the position report can be the label for the set of objects - the label will display on all present software without the multi-point stuff.

Uses for this protocol I can think of:

NWS boxes and odd-polygons

Last 20 lightning strikes

On the fly Maps

Routes

Extremely low resolution radar (!)

I will try to generate some example packets this week-end

73 de kg5qd Dale

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 3 11:44:36 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA08781

for <lyris.aprsspec@tapr.org>; Sun, 3 Dec 2000 11:44:35 -0600 (CST)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sun, 3 Dec 2000 12:41:18 -0500 (EST)

From: Bob Bruninga <bruninga@usna.edu>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Query: Area Objects

In-Reply-To: <LYR11586-122592-2000.12.03-06.32.02--bruninga#nadm.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-122640-2000.12.03-11.52.47--lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GSO.4.05L.10012031238020.4420-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Sun, 3 Dec 2000, Dale Huguley wrote:

> the offset is then defined as a two digit number representing the square
> root of the offset in hundreths of a degree. The smallest offset (besides
> zero) would therefore be "01"- which my math is:
>
> $01^2 = 1 = .01 \text{ degree} = .68703 \text{ miles}$ if we were talking about longitude at
> the equator = 3627 ft

I just did the objects in APRSdos and

01 made a rectangle 150' by 200'
02 made it 700 by 950
03 made it .31 miles by .4 miles

I dont have time to check the details, supposed to be raking leaves...

bo

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 06:56:58 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA16842
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 06:56:58 -0600 (CST)
Message-ID: <LYR11589-122932-2000.12.05-07.05.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 5 Dec 2000 12:53:24 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] "Printable ASCII Characters"?
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <qDeJ+LAEVOL6EwND@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The APRS spec frequently refers to "printable ASCII characters". I presume that it is using the term with its normal meaning of ASCII character codes 32 to 126? If it is, then strict adherence to the spec for the content of beacon comments, messages, object names, etc, would seem to present a problem for users whose native language makes use of accented characters.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 09:43:57 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA13931
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 09:43:55 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 5 Dec 2000 10:39:44 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: "Printable ASCII Characters"?
In-Reply-To: <LYR11586-122932-2000.12.05-07.05.04--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-122952-2000.12.05-09.54.08--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10012051037370.26999-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 5 Dec 2000, Roger Barker wrote:

> The APRS spec frequently refers to "printable ASCII characters". I
> presume that it is using the term with its normal meaning of ASCII

> character codes 32 to 126? If it is, then strict adherence to the spec
> for the content of beacon comments, messages, object names, etc, would
> seem to present a problem for users whose native language makes use of
> accented characters.

An interesting observation. The thing we were trying to avoid was
imbedded TABS and Line feeds and FORM Feeds and other control characters.
I think that most TNC's operate at n,8 1 and so it wouldn't matter. It
would be nice to test against conventional TNC's and quantify the problem
(if any)....

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 09:58:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA16119
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 09:58:55 -0600 (CST)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: "Printable ASCII Characters"?
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="----=_NextPart_001_01C05ED4.0445B2A9"
Date: Tue, 5 Dec 2000 10:57:06 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Message-ID: <LYR11589-122955-2000.12.05-10.09.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] "Printable ASCII Characters"?
Thread-Index: AcBeuxXDawAp9CTXTIehvwRi9sTuTgAFv1QQ
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3BF69E507000F749921956EFC6B19084FF0B@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_=_NextPart_001_01C05ED4.0445B2A9
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Roger,

"printable ASCII characters" isn't what causes a problem. ASCII in general is what causes the problems. Being an "American" standard, ASCII was designed to use a small number of bits to represent the English Alphabet. And that doesn't even come close to what is needed to represent the characters of other languages. That's why Unicode was created. 16 bit representations of alphabets from across the world.=20

If you think that using one of the above 128 characters is a solution, then it's only a solution in the narrow realm that the creators of ASCII though in. Dependent on the character set that you are using, the characters can have a wide variety of displays. And if I'm not mistaken, APRS doesn't attempt to use character sets.

So yes, my take is that you are absolutely correct. The option is to implement character sets and Unicode which would double the packet lengths.

Wanna try Kanji?

I'll agree that it was a very self-centered attitude that create ASCII and the same attitude that has continued it's use. But it's also an attitude that has allowed us to reduce by 50% the transmission time and storage requirements.

Ed Woodrick

-----Original Message-----
From: Roger Barker [mailto:roger@peaksys.co.uk]
Posted At: Tuesday, December 05, 2000 7:53 AM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] "Printable ASCII Characters"?
Subject: [aprsspec] "Printable ASCII Characters"?

The APRS spec frequently refers to "printable ASCII characters". I presume that it is using the term with its normal meaning of ASCII character codes 32 to 126? If it is, then strict adherence to the spec for the content of beacon comments, messages, object names, etc, would seem to present a problem for users whose native language makes use of

accented characters.

--=20

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: Mail-Lists.APRS@ed-com.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

-----_=_NextPart_001_01C05ED4.0445B2A9

Content-Type: text/html;
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">

<HTML>

<HEAD>

<META HTTP-EQUIV=3D"Content-Type" CONTENT=3D"text/html; =
charset=3Diso-8859-1">

<META NAME=3D"Generator" CONTENT=3D"MS Exchange Server version =
6.0.4417.0">

<TITLE>RE: [aprsspec] "Printable ASCII Characters";?</TITLE>

</HEAD>

<BODY>

<!-- Converted from text/plain format -->

<P>Roger,

</P>

<P>"printable ASCII characters" isn't what =
causes a problem. ASCII in general is what causes the problems. Being an =
"American" standard, ASCII was designed to use a small number =
of bits to represent the English Alphabet. And that doesn't even come =
close to what is needed to represent the characters of other languages. =
That's why Unicode was created. 16 bit representations of alphabets from =
across the world. </P>

<P>If you think that using one of the above 128 =
characters is a solution, then it's only a solution in the narrow realm =
that the creators of ASCII though in. Dependent on the character set =
that you are using, the characters can have a wide variety of displays. =
And if I'm not mistaken, APRS doesn't attempt to use character =
sets.</P>

<P>So yes, my take is that you are absolutely correct. =
The option is to implement character sets and Unicode which would double =
the packet lengths.</P>

<P>Wanna try Kanji?
</P>

<P>I'll agree that it was a very self-centered attitude =
that create ASCII and the same attitude that has continued it's use. But =
it's also an attitude that has allowed us to reduce by 50% the =
transmission time and storage requirements.</P>

<P>Ed Woodrick
</P>

<P>-----Original Message-----

From: Roger Barker [<A =
HREF=3D"mailto:roger@peaksys.co.uk">mailto:roger@peaksys.co.uk]=
>

Posted At: Tuesday, December 05, 2000 7:53 AM

Posted To: Mail-Lists.APRS

Conversation: [aprsspec] "Printable ASCII =
Characters"?

Subject: [aprsspec] "Printable ASCII =
Characters"?
</P>

<P>The APRS spec frequently refers to "printable =
ASCII characters". I

presume that it is using the term with its normal =
meaning of ASCII

character codes 32 to 126? If it is, then strict =
adherence to the spec

for the content of beacon comments, messages, object =
names, etc, would

seem to present a problem for users whose native =

language makes use of

accented characters.
</P>

<P>--

Roger Barker, G4IDE - roger@peaksys.co.uk

For UI-View go to - <A =
HREF=3D"http://www.packetradio.org.uk">http://www.packetradio.org.uk<=

For WinPack go to - <A =
HREF=3D"http://www.peaksys.co.uk">http://www.peaksys.co.uk
</P>

<P>---

You are currently subscribed to aprsspec as: =
Mail-Lists.APRS@ed-com.net

To unsubscribe send a blank email to =
leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG =
administrator: wallou@tapr.org
</P>

</BODY>

</HTML>

-----_=_NextPart_001_01C05ED4.0445B2A9--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 10:41:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA22163
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 10:41:16 -0600 (CST)
X-Sender: dvanhorn@mail.cedar.net
Date: Tue, 05 Dec 2000 11:34:52 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: "Printable ASCII Characters"?

Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-122952-2000.12.05-09.54.08--dvanhorn#cedar.net@lists.tapr.org>
References: <LYR11586-122932-2000.12.05-07.05.04--bruninga#nadm.navy.mil@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-122962-2000.12.05-10.52.07--lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20001205163750.BC0J28851.mail1.rdc1.il.home.com@main>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>An interesting observation. The thing we were trying to avoid was
>imbedded TABS and Line feeds and FORM Feeds and other control characters.
>I think that most TNC's operate at n,8 1 and so it wouldn't matter. It
>would be nice to test against conventional TNC's and quantify the problem
>(if any)....

I've often wondered at the reluctance to use the lower end of the ascii
set, with it's standardized chars for various packet structure elements.
That's what they are there for.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 11:07:55 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA25603
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 11:07:55 -0600 (CST)
Message-ID: <LYR11589-122966-2000.12.05-11.15.45--lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 5 Dec 2000 17:03:31 +0000

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: "Printable ASCII Characters"?
References: <LYR13460-122955-2000.12.05-10.09.06--roger@peaksys.co.uk@lists.tapir.org>
In-Reply-To: <LYR13460-122955-2000.12.05-10.09.06--roger@peaksys.co.uk@lists.tapir.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <KsXxlhAj\$RL6Ew7m@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

In article <LYR13460-122955-2000.12.05-10.09.06--roger@peaksys.co.uk@lists.tapir.org>, Woodrick, Ed <ewoodrick@ed-com.com> writes
[snip]

> So yes, my take is that you are absolutely correct. The option is
> to implement character sets and Unicode which would double the
> packet lengths.
>
> Wanna try Kanji?
>
> I'll agree that it was a very self-centered attitude that create
> ASCII and the same attitude that has continued it's use. But it's
> also an attitude that has allowed us to reduce by 50% the
> transmission time and storage requirements.

Unicode is a quantum leap from "printable ASCII"! All I was really asking was whether "extended ASCII" - character codes above 127 - should be allowed in APRS messages, etc. After all, it's been done on "normal" (mailbox) packet for many years. Transmission and storage requirements would be exactly the same as now.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Tue Dec 5 11:24:20 2000
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id LAA27130
for <lyris.aprsspec@tapir.org>; Tue, 5 Dec 2000 11:24:19 -0600 (CST)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: "Printable ASCII Characters"?
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_001_01C05EDF.A46A9688"
Date: Tue, 5 Dec 2000 12:20:19 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Message-ID: <LYR11589-122969-2000.12.05-11.32.12--
lyris.aprsspec#tapir.org@lists.tapir.org>
Thread-Topic: [aprsspec] RE: "Printable ASCII Characters"?
Thread-Index: AcBe3hinr2n8K/MISMa8UpbsKt+lvGAAUxCA
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <3BF69E507000F749921956EFC6B19084062CB8@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_NextPart_001_01C05EDF.A46A9688
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

My point is that there really is no such standard as "extended ASCII"
What might print as one character for you isn't the same for someone
else. It depends on the character set that you are using.=20

-----Original Message-----
From: Roger Barker [mailto:roger@peaksys.co.uk]
Posted At: Tuesday, December 05, 2000 12:04 PM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] RE: "Printable ASCII Characters"?
Subject: [aprsspec] RE: "Printable ASCII Characters"?

In article <LYR13460-122955-2000.12.05-10.09.06--roger#peaksys.co.uk@lists.tapir.org>, Woodrick, Ed <ewoodrick@ed-com.com> writes
[snip]

> So yes, my take is that you are absolutely correct. The option is=20
> to implement character sets and Unicode which would double the=20
> packet lengths.
>
> Wanna try Kanji?=20
>
> I'll agree that it was a very self-centered attitude that create=20
> ASCII and the same attitude that has continued it's use. But it's=20
> also an attitude that has allowed us to reduce by 50% the=20
> transmission time and storage requirements.

Unicode is a quantum leap from "printable ASCII"! All I was really asking was whether "extended ASCII" - character codes above 127 - should be allowed in APRS messages, etc. After all, it's been done on "normal" (mailbox) packet for many years. Transmission and storage requirements would be exactly the same as now.

--=20

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: Mail-Lists.APRS@ed-com.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

-----_=_NextPart_001_01C05EDF.A46A9688

Content-Type: text/html;

charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">

<HTML>

<HEAD>

<META HTTP-EQUIV=3D"Content-Type" CONTENT=3D"text/html; =
charset=3Diso-8859-1">

<META NAME=3D"Generator" CONTENT=3D"MS Exchange Server version =
6.0.4417.0">

<TITLE>RE: [aprsspec] RE: "Printable ASCII =
Characters";?</TITLE>

</HEAD>

<BODY>

<!-- Converted from text/plain format -->

<P>My point is that there really is no such standard as =

</BODY>

</HTML>

-----_=_NextPart_001_01C05EDF.A46A9688--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 11:44:59 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA00352
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 11:44:58 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Tue, 5 Dec 2000 09:53:27 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Position reports w/ speed/course
Message-ID: <LYR11589-122971-2000.12.05-11.55.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0012050945510.4802-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I am having difficulty getting basic position reports with course/speed to work in my application. I have read the (very well done) APRS spec, and I *THINK* I'm implementing the spec. However, my code does not seem to be working.

Here's a packet that I received at my home station:
N7XUC-2>APZPAD,WIDE2-2:/232352z4118.39N/10534.56W>122/000SmartPalm Beta

The "SmartPalm Beta" is supposed to be a comment. However, Xastir and findu both treat the 122/000 as a comment, too. The 122/000 is supposed to be a course of 122 degrees at 000 nm/h.

My question is simple:

Did I do this right? If not, what is wrong?

--

Joel Maslak
N7XUC

P.S. In case you are wondering, I'm implementing a clone to the HamHud on the Palm. A very simple display, like the HamHud. It won't be a replacement for PalmAPRS, as it will not include mapping, nor will it replace the HamHud, as the HamHud is a nicer and cheaper package for a vehicle.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 11:45:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA00374
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 11:45:07 -0600 (CST)
Message-ID: <LYR11589-122972-2000.12.05-11.56.02--
lyris.aprsspec@lists.tapr.org>
Date: Tue, 5 Dec 2000 17:41:20 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: "Printable ASCII Characters"?
References: <LYR13460-122969-2000.12.05-11.32.12--
roger@peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-122969-2000.12.05-11.32.12--
roger@peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <WffGpjAAjSL6EwLT@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-122969-2000.12.05-11.32.12--roger@peaksys.co.uk@lists.tapr.org>, Woodrick, Ed <ewoodrick@ed-com.com> writes

>

> My point is that there really is no such standard as "extended
> ASCII" What might print as one character for you isn't the same for

> someone else. It depends on the character set that you are using.

Yes, it isn't perfect. But it works well enough to be widely used on "normal" packet. You only get real problems with Windows software that uses the standard Windows ANSI character set, but that, of course, is a problem for the developer...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 12:16:28 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04875
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 12:16:27 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 5 Dec 2000 13:13:25 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Position reports w/ speed/course
In-Reply-To: <LYR11586-122971-2000.12.05-11.55.48--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-122982-2000.12.05-12.26.40--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10012051308270.21580-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 5 Dec 2000, Joel Maslak wrote:

> N7XUC-2>APZPAD,WIDE2-2:/232352z4118.39N/10534.56W>122/000SmartPalm Beta
>

> The "SmartPalm Beta" is supposed to be a comment. However, Xastir and
> findu both treat the 122/000 as a comment, too. The 122/000 is supposed
> to be a course of 122 degrees at 000 nm/h.

> Did I do this right? If not, what is wrong?

k

Looks OK to me. Usually in such cases, I insert a "/" between the end of
the SPEED and the beginning of the comment to make it more readable.

Maybe that "/" got into the spec or into Xaster and FINDU?

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 5 15:14:44 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02414
for <lyris.aprsspec@tapr.org>; Tue, 5 Dec 2000 15:14:42 -0600 (CST)
From: "Jonathan Bradshaw" <Jonathan@NrgUp.Net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Position reports w/ speed/course
Date: Tue, 5 Dec 2000 21:11:43 -0000
Message-ID: <LYR11589-123014-2000.12.05-15.22.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR14840-122971-2000.12.05-11.55.48--
jonathan#nrgup.net@lists.tapr.org>
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <NDBBKJGHHMCFBFANNEFNCKEBKCBAA.Jonathan@NrgUp.Net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hmm, seems ok to me. A quick pass through the decoder I'm working on seems to be able to decode it too.

```
<?xml version="1.0"?>
<station>
  <callsign>N7XUC-2</callsign>
  <messaging>>false</messaging>
  <position>
    <type>uncompressed</type>
    <latitude>41.3065</latitude>
    <longitude>-105.576</longitude>
    <ambiguity>0</ambiguity>
    <symbolTable>primary</symbolTable>
    <symbolCode id=30>Car</symbolCode>
    <course>122</course>
    <speed>0</speed>
    <timeReported>2000-12-05T21:03:33Z</timeReported>
  </position>
  <comment>SmartPalm Beta</comment>
</station>
```

Lets see what aprsdec thinks:

```
N7XUC-2>APZPAD,WIDE2-2:/232352z4118.39N/10534.56W>122/000SmartPalm Beta
APRS Data Type= Posit w/ time. No APRS
Day= 23 Time= 23 hours 52 mins UTC
Lat= 41 deg 18.39 min N Long= 105 deg 34.56 min W
Icon= Car Overlay= (none)
Course= 122 deg Speed= 000 knots (0.0 mph 0.0 kph 0.0 m/s)
```

Looks good!

--

"The only secure computer is one that's unplugged, locked in a safe, and buried 20 feet under the ground in a secret location... and I'm not even too sure about that one" -- Dennis Huges, FBI.

-----Original Message-----

From: bounce-aprsspec-14840@lists.tapr.org
[mailto:bounce-aprsspec-14840@lists.tapr.org] On Behalf Of Joel Maslak
Sent: 05 December 2000 16:53
To: APRS Spec Discussion List
Subject: [aprsspec] Position reports w/ speed/course

I am having difficulty getting basic position reports with course/speed to work in my application. I have read the (very well done) APRS spec, and I *THINK* I'm implementing the spec. However, my code does not seem to be working.

Here's a packet that I received at my home station:

N7XUC-2>APZPAD,WIDE2-2:/232352z4118.39N/10534.56W>122/000SmartPalm Beta

The "SmartPalm Beta" is supposed to be a comment. However, Xastir and findu both treat the 122/000 as a comment, too. The 122/000 is supposed to be a course of 122 degrees at 000 nm/h.

My question is simple:

Did I do this right? If not, what is wrong?

--

Joel Maslak
N7XUC

P.S. In case you are wondering, I'm implementing a clone to the HamHud on the Palm. A very simple display, like the HamHud. It won't be a replacement for PalmAPRS, as it will not include mapping, nor will it replace the HamHud, as the HamHud is a nicer and cheaper package for a vehicle.

You are currently subscribed to aprsspec as: jonathan@nrgup.net
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Dec 6 13:04:22 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA12112
for <lyris.aprsspec@tappr.org>; Wed, 6 Dec 2000 13:04:20 -0600 (CST)
From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: "Printable ASCII Characters"?
Date: Wed, 06 Dec 2000 21:00:22 +0200

Message-ID: <LYR11589-123194-2000.12.06-13.12.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
References: <LYR13460-122955-2000.12.05-10.09.06--
roger#peaksys.co.uk@lists.tapr.org> <LYR13206-122966-2000.12.05-11.15.45--
Paul.Keinanen#sci.fi@lists.tapr.org>
In-Reply-To: <LYR13206-122966-2000.12.05-11.15.45--
Paul.Keinanen#sci.fi@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <n33t2t4c5t6cmv1cmh5if1e1m1ct3mkpso@4ax.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 5 Dec 2000 17:03:31 +0000, Roger Barker <roger@peaksys.co.uk>
wrote:

>In article <LYR13460-122955-2000.12.05-10.09.06--roger#peaksys.co.uk@lis
>ts.tapr.org>, Woodrick, Ed <ewoodrick@ed-com.com> writes
>.

>> So yes, my take is that you are absolutely correct. The option is
>> to implement character sets and Unicode which would double the
>> packet lengths.

>> Wanna try Kanji?

>> I'll agree that it was a very self-centered attitude that create
>> ASCII and the same attitude that has continued it's use. But it's
>> also an attitude that has allowed us to reduce by 50% the
>> transmission time and storage requirements.

>Unicode is a quantum leap from "printable ASCII"! All I was really
>asking was whether "extended ASCII" - character codes above 127 - should
>be allowed in APRS messages, etc. After all, it's been done on "normal"
>(mailbox) packet for many years. Transmission and storage requirements
>would be exactly the same as now.

While Unicode would definitively the way to make the APRS standard
more international, why use the fixed width 16 bit UTF-16 characters.
Use the variable length UTF-8 instead.

In UTF-8 all 7 bit US-ASCII characters are encoded as a single byte.
In fact you can not tell from the byte stream if you have pure
US-ASCII or UTF-8.

All extended Latin, Greek, Cyrillic, Hebrew, Arabic etc. characters
are encoded by two bytes/char.

East Asian characters are encoded by 3 bytes/char and in the future,
dead languages, such as Hieroglyphic will be encoded with 4
bytes/char.

In the US-ASCII range 0 .. 127, the high bit is cleared. In all other
bytes, the high bit is set (in both the lead byte and the follow up
bytes), thus, there is no risk for an extended character byte to be
incorrectly interpreted as CR, TAB, XON, XOFF etc. in any PC to TNC
interfaces or some internet gateways relaying on some strange Telnet
libraries.

However, the 8th bit must be properly handled end to end, but if there
still are equipment that do not support 8 bit characters, they deserve
the same fate as dinosaurs.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 6 15:17:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA09524
for <lyris.aprsspec@tapr.org>; Wed, 6 Dec 2000 15:17:05 -0600 (CST)
From: "Richard Carter" <rich.carter@windriver.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: "Printable ASCII Characters"?
Date: Wed, 6 Dec 2000 16:20:14 -0500
Message-ID: <LYR11589-123206-2000.12.06-15.27.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal

In-Reply-To: <LYR13907-123194-2000.12.06-13.12.12--rcarter#isi.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NBBDJJJKGMKOEJPJIIIFEGKELAJLAC.rich.carter@windriver.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

CW doesn't support international character sets. Why should APRS?

Rich Carter - KE1EV

-----Original Message-----

From: bounce-aprsspec-13907@lists.tapr.org
[mailto:bounce-aprsspec-13907@lists.tapr.org] On Behalf Of Paul Keinanen
Sent: Wednesday, December 06, 2000 2:00 PM
To: APRS Spec Discussion List
Subject: [aprsspec] RE: "Printable ASCII Characters"?

On Tue, 5 Dec 2000 17:03:31 +0000, Roger Barker <roger@peaksys.co.uk>
wrote:

>In article <LYR13460-122955-2000.12.05-10.09.06--roger#peaksys.co.uk@lis
>ts.tapr.org>, Woodrick, Ed <ewoodrick@ed-com.com> writes
.

>> So yes, my take is that you are absolutely correct. The option is
>> to implement character sets and Unicode which would double the
>> packet lengths.

>> Wanna try Kanji?

>> I'll agree that it was a very self-centered attitude that create
>> ASCII and the same attitude that has continued it's use. But it's
>> also an attitude that has allowed us to reduce by 50% the
>> transmission time and storage requirements.

>Unicode is a quantum leap from "printable ASCII"! All I was really
>asking was whether "extended ASCII" - character codes above 127 - should
>be allowed in APRS messages, etc. After all, it's been done on "normal"
>(mailbox) packet for many years. Transmission and storage requirements
>would be exactly the same as now.

While Unicode would definitively the way to make the APRS standard more international, why use the fixed width 16 bit UTF-16 characters. Use the variable length UTF-8 instead.

In UTF-8 all 7 bit US-ASCII characters are encoded as a single byte. In fact you can not tell from the byte stream if you have pure US-ASCII or UTF-8.

All extended Latin, Greek, Cyrillic, Hebrew, Arabic etc. characters are encoded by two bytes/char.

East Asian characters are encoded by 3 bytes/char and in the future, dead languages, such as Hieroglyphic will be encoded with 4 bytes/char.

In the US-ASCII range 0 .. 127, the high bit is cleared. In all other _bytes_, the high bit is set (in both the lead byte and the follow up bytes), thus, there is no risk for an extended character byte to be incorrectly interpreted as CR, TAB, XON, XOFF etc. in any PC to TNC interfaces or some internet gateways relaying on some strange Telnet libraries.

However, the 8th bit must be properly handled end to end, but if there still are equipment that do not support 8 bit characters, they deserve the same fate as dinosaurs.

Paul OH3LWR

You are currently subscribed to aprsspec as: rcarter@isi.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Dec 6 15:35:57 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA12403
for <lyris.aprsspec@tappr.org>; Wed, 6 Dec 2000 15:35:52 -0600 (CST)
content-class: urn:content-classes:message

MIME-Version: 1.0
Subject: [aprsspec] RE: "Printable ASCII Characters"?
Content-Type: multipart/alternative;
 boundary="----=_NextPart_001_01C05FCC.18603D19"
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Date: Wed, 6 Dec 2000 16:32:55 -0500
Message-ID: <LYR11589-123215-2000.12.06-15.44.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: "Printable ASCII Characters"?
Thread-Index: AcBfymFC+u/IM1sKRsyw2L/MDp0ocwAAB+sg
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3BF69E507000F749921956EFC6B19084FF0E@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----=_NextPart_001_01C05FCC.18603D19
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

What if CW didn't include an "a" or an "e"? Wouldn't that make it really hard to spell a lot of words? Since American English doesn't make up 100% of the languages spoken on this planet, a LOT of people have problems. How would you like to not be able to spell your name in CW or packet? Or maybe not write your city's name? There are many situations where this exists.

A lot of the world is pretty upset with the "Americanizing" that goes on. It was bad enough that we changed the spelling of thousands of family names as they came through Ellis Island, we don't have to continue the practice.

Why should APRS (or any transcribed communications) support International Character Sets? Because the great majority of names and words used around the world can't be represented in US ASCII.

While we Americans might think that we are the focal point of the world, reality is far from it.

How would you like it if Kanji was the only character set supported by APRS?

I'm not saying that APRS should be modified to support non-ASCII. Overall, that would be extremely tough. But then again, any new specifications should at least attempt to start addressing the issues. Non-ASCII is actually pretty tough when you factor in the transport that is used. Email systems, using similar transports, often do a compression to 6 bit characters for transmission of the data. Because there are still some transports that have problems with 8 and even 7 bit characters.

Ed Woodrick

-----Original Message-----

From: Richard Carter [mailto:rich.carter@windriver.com]
Posted At: Wednesday, December 06, 2000 4:20 PM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] RE: "Printable ASCII Characters"?
Subject: [aprsspec] RE: "Printable ASCII Characters"?

CW doesn't support international character sets. Why should APRS? =20

Rich Carter - KE1EV

-----_=_NextPart_001_01C05FCC.18603D19

Content-Type: text/html;
charset="iso-8859-1"

Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2//EN">

<HTML>

<HEAD>

<META HTTP-EQUIV=3D"Content-Type" CONTENT=3D"text/html; =
charset=3Diso-8859-1">

<META NAME=3D"Generator" CONTENT=3D"MS Exchange Server version =
6.0.4417.0">

<TITLE>RE: [aprsspec] RE: "Printable ASCII =
Characters"?</TITLE>

</HEAD>

<BODY>

<!-- Converted from text/plain format -->

<P>What if CW didn't include an "a" or an =

"e"? Wouldn't that make it really hard to spell a lot of = words? Since American English doesn't make up 100% of the languages = spoken on this planet, a LOT of people have problems. How would you like = to not be able to spell your name in CW or packet? Or maybe not write = your city's name? There are many situations where this = exists.</P>

<P>A lot of the world is pretty upset with the = "Americanizing" that goes on. It was bad enough that we = changed the spelling of thousands of family names as they came through = Ellis Island, we don't have to continue the practice.</P>

<P>Why should APRS (or any transcribed communications) = support International Character Sets? Because the great majority of = names and words used around the world can't be represented in US = ASCII.</P>

<P>While we Americans might think that we are the focal = point of the world, reality is far from it.
</P>

<P>How would you like it if Kanji was the only character = set supported by APRS?
</P>

<P>I'm not saying that APRS should be modified to support = non-ASCII. Overall, that would be extremely tough. But then again, any = new specifications should at least attempt to start addressing the = issues. Non-ASCII is actually pretty tough when you factor in the = transport that is used. Email systems, using similar transports, often = do a compression to 6 bit characters for transmission of the data. = Because there are still some transports that have problems with 8 and = even 7 bit characters.</P>

<P>Ed Woodrick
</P>

<P>-----Original Message-----

From: Richard Carter [<A =
HREF=3D"mailto:rich.carter@windriver.com">mailto:rich.carter@windriver.co=
m]

Posted At: Wednesday, December 06, 2000 4:20 =
PM

Posted To: Mail-Lists.APRS

Conversation: [aprrsspec] RE: "Printable ASCII = Characters";?

Subject: [aprrsspec] RE: "Printable ASCII = Characters";?
</P>

<P>CW doesn't support international character sets. = Why should APRS?
</P>

<P>Rich Carter - KE1EV
</P>

</BODY>
</HTML>

-----_=_NextPart_001_01C05FCC.18603D19--

You are currently subscribed to aprsspec as: lyris.aprrsspec@tapr.org
To unsubscribe send a blank email to leave-aprrsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprrsspec-11589@lists.tapr.org Wed Dec 6 18:11:26 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA04348
for <lyris.aprrsspec@tapr.org>; Wed, 6 Dec 2000 18:11:25 -0600 (CST)

From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprrsspec@lists.tapr.org>
Subject: [aprrsspec] RE: "Printable ASCII Characters"?
Date: Thu, 07 Dec 2000 02:11:10 +0200

Message-ID: <LYR11589-123238-2000.12.06-18.22.12--

lyris.aprrsspec#tapr.org@lists.tapr.org>

References: <LYR13206-123215-2000.12.06-15.44.18--

Paul.Keinanen#sci.fi@lists.tapr.org>

In-Reply-To: <LYR13206-123215-2000.12.06-15.44.18--

Paul.Keinanen#sci.fi@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprrsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprrsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprrsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <irht2ts1kmub1sgs5lf2q88mookevtgerr@4ax.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 6 Dec 2000 16:32:55 -0500, "Woodrick, Ed"
<ewoodrick@ed-com.com> wrote:

>is used. Email systems, using similar transports, often do a compression
>to 6 bit characters for transmission of the data. Because there are
>still some transports that have problems with 8 and even 7 bit
>characters.

A decade ago there were a lot of problems getting 8 bit characters through some mail gateways, but fortunately there was a lot of security bugs in these systems, so these had to be updated and with the new versions, the 8 bit support sneaked in also :-). So anybody complaining that the 8 bit characters will not get through, also announce that they have a system full of security bugs.

A haven't seen 6 bit character sets since 36 bit mainframes (Univac etc.), but these usually had also a 9 bit character mode. DECsystem20 had five 7 bit characters packed into a single 36 memory word. Apart for these few exceptions, I can not think of architectures that could not handle effectively 8 bit characters.

The reason for 6 bit encoding of _binary_ data is that many gateways are written in C and which the NULL is the string terminator, thus any actual NULLs in the message would be lost.

Returning back to APRS, there are several ways in which non-US-ASCII characters could be used.

There is the old 7 bit ISO-646 standard with dozens of national variants. Some code points in the US-ASCII ([] { } \ | etc.) are replaced with national variants. A code page usually only supports one or two languages, thus, some means would be required to communicate the code page in use when sending a message from one country to an other. This was the method used in computing until the early 1980's. Unless the code page number is contained in the same message, there is going to be a lot of incorrectly displayed text. We would end up with the same mess as back in the 1970's and 1980's. I have written bilingual Finnish/Russian and English/Arabic applications using 7 bit code pages and I do not want to experience the same mess again with frequent code page switching.

If non-Latin 7 bit code pages are in use, you can not display the Latin letters A .. Z at the same time.

However, if 8 bit characters are supported, then some variant of ISO-8859 could be used, each supporting a large number of languages. But then again, the code page number would have to be transmitted in the message going from one language group to an other.

UTF-8 also requires an 8 bit transport, but the advantage is that there is no need to communicate the code page in the message, since each character has a unique code all over the world. For English, the code is as effective as US-ASCII, for languages using some form of the Latin script, the size is about 10 .. 20 % larger than ISO-8859. For scripts like Greek, Cyrillic, Hebrew and Arabic, the size is twice as large compared to the appropriate ISO-8859 variant.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 6 18:14:33 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA04590
for <lyris.aprsspec@tapr.org>; Wed, 6 Dec 2000 18:14:32 -0600 (CST)
From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: "Printable ASCII Characters"?
Date: Thu, 07 Dec 2000 02:11:09 +0200
Message-ID: <LYR11589-123239-2000.12.06-18.23.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
References: <LYR13907-123194-2000.12.06-13.12.12--rcarter#isi.com@lists.tapr.org>
<LYR13206-123206-2000.12.06-15.27.57--Paul.Keinanen#sci.fi@lists.tapr.org>
In-Reply-To: <LYR13206-123206-2000.12.06-15.27.57--
Paul.Keinanen#sci.fi@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
X-MIME-Autoconverted: from 8bit to quoted-printable by kauha.saunalahti.fi id
eB70Ajn12113
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <migt2tg1mgnu1dlflfeug058k13o3rie9k@4ax.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA04590

On Wed, 6 Dec 2000 16:20:14 -0500, "Richard Carter"

<rich.carter@windriver.com> wrote:

>CW doesn't support international character sets. Why should APRS?

In the Finnish amateur radio CW exam, the characters *f* (di dah di dah) and ÷ (dah dah dah di) are required. Also ≈ (di dah dah di dah) is used in communication but not required in the exam.

Even the ARRL Handbook list quite a few international characters, so it should not be too hard even for Americans to know that other character sets exists. Older Handbooks (e.g. 1991) even listed Japanese, Thai, Korean, Arabic, Hebrew, Russian and Greek Morse codes.

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 11:33:00 2000

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA01601

for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 11:32:59 -0600 (CST)

X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs

Date: Sun, 10 Dec 2000 10:34:14 -0700 (MST)

From: Joel Maslak <jmaslak@antelope.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Current software & the spec

Message-ID: <LYR11589-123941-2000.12.10-11.44.03--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.LNX.4.21.0012101025001.18831-100000@bigsky.antelope.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

I am writting a small tracker/display application, and came across a few things which made me scratch my head. Simply put, there are some things in the spec which are not implemented by even the most popular APRS programs. There are other things which, while implemented, are implemented slightly different then the spec.

Someone who works in the computer industry will immediately say, "this isn't unusual!" It's not, as there are many, many different TCP/IP implementations, and I know of none that follow the actual TCP/IP spec! However, the spec was written for a reason, and any software designer should try to follow it whenever possible.

Here's a short list of inconsistancies I've found:

- 1) Some packets end with a CR. This is part of the actual packet, not a fault of my system! This is due to the SENDPAC character being a LF - when programs send a CRLF instead of just a LF, the CR becomes part of the packet. The spec indicates that the trailing CR should NOT exist.
- 2) Other programs send BOTH a CR and LF! This is most common in "dumb" trackers. Chances are, it is a bug in the TNC firmware. Once again, this is outside the spec.
- 3) The Course/Speed extension simply does not work in most software. I've actually tested WinAPRS, Findu, and Xastir, although I'm sure it doesn't work in most others, either. This extension is treated like part of the comment by these systems. Thus, the longer \$GPRMC string needs to be sent if this information is important to you.
- 4) Compressed packets are not understood by many simple applications. This causes our bandwidth usage to increase.

Let me recommend, as always, that any software is liberal in what it accepts and conservative in what it sends. If your software does one of the above, you would be doing the APRS community a service by fixing it! However, any author should expect the above things to occur. A simple reading of the spec will not alert you to these possibilities.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Dec 10 12:12:01 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA05834
for <lyris.aprsspec@tappr.org>; Sun, 10 Dec 2000 12:12:01 -0600 (CST)
X-Sender: dvanhorn@mail.cedar.net
Date: Sun, 10 Dec 2000 13:05:04 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Current software & the spec
In-Reply-To: <LYR11608-123941-2000.12.10-11.44.03--dvanhorn#cedar.net@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-123942-2000.12.10-12.19.44--lyris.aprsspec#tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20001210180736.XBG3879.mail1.rdc1.il.home.com@main>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

>Let me recommend, as always, that any software is liberal in what it
>accepts and conservative in what it sends. If your software does one of
>the above, you would be doing the APRS community a service by fixing
>it! However, any author should expect the above things to occur. A
>simple reading of the spec will not alert you to these possibilities.

Are we doing ourselves any good by accepting packets that don't conform to spec?

I think it mainly prolongs the agony.

I used to work on software that moved money around. (Credit card payments)
We used an approach that could be summarized as "take the first opportunity to throw the packet away, and if it survives all tests, then act on it".

We had almost zero instances of crashes caused by bad packets.
The one time we had a problem, it turned out to be a bug on our end, aggravated by an LRC routine that worked from back to front, when all the other parsing ran from front to back, and a bug in one of Visa's five Tandems, that output the first 10 bytes of the packet twice, if you nacked the first (correctly built) packet that it sent, possibly due to line noise. It took 7000 transactions to isolate the exact sequence of events. This was done using simulation software written especially for this job.

The bad packet looked like this:

```
<STX>first 9 bytes of data repeated<STX>real data<ETX><LRC>
```

The LRC routine started at the back, rather than the front, and stopped when it encountered an STX, so it passed the packet.

Then the parser then took what should have been the numeric date, (based on the position relative to the first STX), and ended up putting alpha information into a numeric only field, with disastrous results.

Had our LRC routine been written properly, we would have NAKed this packet (bad LRC), and the bug in the Visa host would have been found and fixed MUCH earlier.

Granted it's not APRS, but there's lessons to be learned here.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 13:47:35 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA18686
for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 13:47:33 -0600 (CST)
Subject: [aprsspec] Re: Current software & the spec
Date: Sun, 10 Dec 2000 14:44:29 -0500
Message-ID: <LYR11589-123955-2000.12.10-13.56.08--
lyris.aprsspec@tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Thread-Topic: [aprsspec] Re: Current software & the spec
Thread-Index: AcBi1M9Sg3q+Al6VT9aX2cQqBxWDWwADCWww
content-class: urn:content-classes:message
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
X-Message-Id: <3BF69E507000F749921956EFC6B19084062CDB@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

If "reject the wrong or questionable" was the way that your email client worked, then you probably would never get any email. As to Internet Standards, the motto is usually "accept anything"

The "accept anything" goes a lot further at allowing specifications to be expanded over time.

What is needed in situations like this is testing suites that can validate that a program is acting properly.

Ed Woodrick

-----Original Message-----

From: David VanHorn [mailto:dvanhorn@cedar.net]
Posted At: Sunday, December 10, 2000 1:05 PM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] Re: Current software & the spec
Subject: [aprsspec] Re: Current software & the spec

>Let me recommend, as always, that any software is liberal in what it
>accepts and conservative in what it sends. If your software does one
of
>the above, you would be doing the APRS community a service by fixing
>it! However, any author should expect the above things to occur. A
>simple reading of the spec will not alert you to these possibilities.

Are we doing ourselves any good by accepting packets that don't conform
to
spec?

I think it mainly prolongs the agony.

I used to work on software that moved money around. (Credit card
payments)

We used an approach that could be summarized as "take the first
opportunity
to throw the packet away, and if it survives all tests, then act on it".

We had almost zero instances of crashes caused by bad packets.
The one time we had a problem, it turned out to be a bug on our end,
aggravated by an LRC routine that worked from back to front, when all
the
other parsing ran from front to back, and a bug in one of Visa's five
Tandems, that output the first 10 bytes of the packet twice, if you
nacked
the first (correctly built) packet that it sent, possibly due to line
noise. It took 7000 transactions to isolate the exact sequence of
events.
This was done using simulation software written especially for this job.

The bad packet looked like this:

<STX>first 9 bytes of data repeated<STX>real data<ETX><LRC>

The LRC routine started at the back, rather than the front, and stopped
when it encountered an STX, so it passed the packet.

Then the parser then took what should have been the numeric date, (based
on
the position relative to the first STX), and ended up putting alpha
information into a numeric only field, with disastrous results.

Had our LRC routine been written properly, we would have NAKed this
packet
(bad LRC), and the bug in the Visa host would have been found and fixed
MUCH earlier.

Granted it's not APRS, but there's lessons to be learned here.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: Mail-Lists.APRS@ed-com.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 14:15:10 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA23108
for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 14:15:08 -0600 (CST)
X-Sender: dvanhorn@mail.cedar.net
Date: Sun, 10 Dec 2000 15:08:51 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Current software & the spec
In-Reply-To: <LYR11608-123955-2000.12.10-13.56.08--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-123958-2000.12.10-14.23.35--lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20001210201124.XPVR17385.mail2.rdc1.il.home.com@main>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 02:44 PM 12/10/00 -0500, Woodrick, Ed wrote:

>

>If "reject the wrong or questionable" was the way that your email client
>worked, then you probably would never get any email. As to Internet
>Standards, the motto is usually "accept anything"

True, but the email client has a human to back it up. It's not going to go
do things automatically based on the content (unless it's outlook express,
automatically installing and running viruses :)

If the data is going to be acted on automatically, then we need to be sure
that it's actually valid.

>The "accept anything" goes a lot further at allowing specifications to
>be expanded over time.

You can always define "optional data" fields, and byte flags with openings
for future definition.

>What is needed in situations like this is testing suites that can
>validate that a program is acting properly.

We must have a PC programmer or two on this list who could write something like that.

When I was into this game, we had a language called "mimic", and I would write a routine that would send every possible valid packet, with several different sets of example data. In the example I gave, I wrote a terminal simulator that ran the transaction over and over, and simulated every sort of error I could think of, on a random basis. It trapped the host responses, and when the host said something illegal, I had the exact data that caused that output. Set it up, and let it rip.

In an APRS version, on the client end, you would see stations appear, move, send messages, weather, whatever else is doable. The tester would examine and interpret your output, and log anything it couldn't understand.

I would also send bad/malformed packets, both on a randomized basis (simulating noise hits) and specific bad packets that had triggered bugs previously (makes regression testing much simpler)

If I were a PC programmer, or still had access to Mimic, I'd volunteer to write this.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 16:36:19 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA13455
for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 16:36:17 -0600 (CST)
Subject: [aprsspec] Re: Current software & the spec
Date: Sun, 10 Dec 2000 17:33:08 -0500
Message-ID: <LYR11589-123975-2000.12.10-16.44.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Thread-Topic: [aprsspec] Re: Current software & the spec
Thread-Index: AcBi5gSweJx+ExmiRMex6S3CrysPqgAEjDIg
content-class: urn:content-classes:message
From: "Woodrick, Ed" <ewoodrick@ed-com.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3BF69E507000F749921956EFC6B19084062CDC@iago.ed-com.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

David,

There's a lot of applications that automatically process Email messages.
A lot.

But even without end-stations processing messages, all of the
intermediary stations "automatically" process the messages.

Oh, let see if I can think of another "automatic" processor? Maybe this
list itself?

And "optional fields" only work to a certain degree.

Ed

-----Original Message-----

From: David VanHorn [mailto:dvanhorn@cedar.net]
Posted At: Sunday, December 10, 2000 3:09 PM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] Re: Current software & the spec
Subject: [aprsspec] Re: Current software & the spec

At 02:44 PM 12/10/00 -0500, Woodrick, Ed wrote:

>

>If "reject the wrong or questionable" was the way that your email
client

>worked, then you probably would never get any email. As to Internet

>Standards, the motto is usually "accept anything"

True, but the email client has a human to back it up. It's not going to
go

do things automatically based on the content (unless it's outlook
express,

automatically installing and running viruses :)

If the data is going to be acted on automatically, then we need to be sure that it's actually valid.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 18:59:42 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA12992
for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 18:59:37 -0600 (CST)
X-Sender: dvanhorn@mail.cedar.net
Date: Sun, 10 Dec 2000 19:52:45 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Current software & the spec
In-Reply-To: <LYR11608-123975-2000.12.10-16.44.48--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-123986-2000.12.10-19.07.31--lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20001211005520.BPRP17385.mail2.rdc1.il.home.com@main>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>There's a lot of applications that automatically process Email messages.
>A lot.

Depends to what degree you mean that..

>And "optional fields" only work to a certain degree.

Any protocol takes thought.. It's worked for visa and mastercard for about

20 years.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 10 20:52:43 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA04506
for <lyris.aprsspec@tapr.org>; Sun, 10 Dec 2000 20:52:43 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Sun, 10 Dec 2000 19:51:24 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Ack/Rej implementations...
Message-ID: <LYR11589-123998-2000.12.10-21.01.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.21.0012101929370.19820-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have a couple more APRS spec/implementation issues.

First: Neither WinAPRS, Xastir, or the HamHud seem to understand a rejection message. This contributes to excess QRM, as the rejection message gets ack'ed, and the original message will continue to be resent forever (or until the user kills it). So, it is better right now to ack ALL received messages - even in stand alone trackers - and then send a normal message stating that the site doesn't have an operator.

Second: We might want to rephrase the Multiple Acknowledgement section on page 72. It tells us that we should separate acknowledgements by 30 seconds and also transmit multiple acks on a long path -- both of which make a lot of sense. However, the first sentence is misleading:

"If a station receives a particular message more than once, it will respond with an acknowledgement for each instance of the message"... I have a home station within range of two wide's. If someone uses a path of WIDE, while they are also in range of my home station, it will send *THREE* acknowledgements. What makes it even worse is that the acknowledgements are sent out via the default path - WIDE3-3! Thus, I end up getting at least 4 acknowledgements, assuming the dupe checking on the digis works like it should (in reality, I get about 6). This is a fairly significant amount of QRM, if you ask me. The worst part is that this QRM goes through 200 miles of network - multiple times! The solution I propose (and implemented) is to SURPRESS duplicate acknowledgements for a period of 30 seconds after a message is acknowledged.

I guess this proves that we need an APRS test system. Unless someone else sends me an e-mail that they have already written one, I'll start writing one in Perl for the Linux OS. I foresee it having a scripted "standard" set of APRS tests and two modules: a generic APRS module and a TNC-specific module (I'll be implementing the TNC for the Alinco 135, since that is what I use in my car). It will connect via a serial port to an APRS application (yes, you will probably need two computers or a null-modem cable - however, it is hoped that at least the big radio companies might be able to secure the needed equipment for the test). However, don't expect me to have anything like this finished before two or three months from now!

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 11 00:24:15 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA21570
for <lyris.aprsspec@tapr.org>; Mon, 11 Dec 2000 00:24:14 -0600 (CST)
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 11 Dec 2000 01:20:02 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Ack/Rej implementations...
In-Reply-To: <LYR11608-123998-2000.12.10-21.01.12--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-124036-2000.12.11-00.34.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20001211062238.HJCJ17385.mail2.rdc1.il.home.com@main>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I previously suggested implementing sequence numbers in the packets. Each packet from me has a sequence number, if you get the same sequence number, and the same callsign, then you know it's a dupe which does not need to be acked, without examining anything else.

Presumably you have space to keep a short list of recent packets, or just the source callsign and sequence numbers.

We ran into this problem in credit verification, when the terminals got the ability to send multiple transactions per session. If the host acks my first packet (an approve/decline response is interpreted as an ack), but the link trashes the ack to a nak (either explicit nak, or a trashed response packet), then I send the same packet again.. The host would get two packets, and think that they were two separate transactions, resulting in multiple charges. Sequence numbers solved that entirely.

You may still need multiple acks to make sure that one gets through, but at least you don't end up multiply acking all the dupes as well.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Dec 11 02:55:20 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA17802
for <lyris.aprsspec@tapr.org>; Mon, 11 Dec 2000 02:55:19 -0600 (CST)

Message-ID: <LYR11589-124050-2000.12.11-03.05.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 11 Dec 2000 08:53:05 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Who's who?
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <oU15LJAXXJN6EwN2@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

For the benefit of those of us who are not members of the Working Group,
I wonder if someone could post a list of the current members and say
with what software product each of them is involved?

Also, I think it would help if others who post suggestions for changes
to the spec, changes to the behaviour of existing software, etc, could
also identify whether they are speaking as an active author of an APRS
program, a would-be author, or just expressing an opinion as an APRS
user.

(See my sig for my involvement with ham radio software.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 12 01:03:08 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA09456
for <lyris.aprsspec@tapr.org>; Tue, 12 Dec 2000 01:03:06 -0600 (CST)
Message-Id: <LYR11589-124191-2000.12.12-01.13.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Current software & the spec
Date: Tue, 12 Dec 2000 02:00:46 -0500
From: Steve Dimse <sdimse@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200012120701.XAA24032@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 12/10/00 12:34 PM Joel Maslak (jmaslak@antelope.net) wrote:

>I am writting a small tracker/display application, and came across a few
>things which made me scratch my head. Simply put, there are some things
>in the spec which are not implemented by even the most popular APRS
>programs. There are other things which, while implemented, are
>implemented slightly different then the spec.

>

First, keep in mind the spec has been official for only a couple months.
Second, since version 1 of the spec is supposed to describe what is
implemented, any mainstream APRS application that deviates from the spec
may well reflect an error in the spec rather than the program.

>Here's a short list of inconsistancies I've found:

- > 1) Some packets end with a CR. This is part of the actual
> packet, not a fault of my system! This is due to the SENDPAC
> character being a LF - when programs send a CRLF instead of
> just a LF, the CR becomes part of the packet. The spec
> indicates that the trailing CR should NOT exist.
- > 2) Other programs send BOTH a CR and LF! This is most common
> in "dumb" trackers. Chances are, it is a bug in the TNC
> firmware. Once again, this is outside the spec.

I just looked, and I could not find where the spec states the data can't
end in cr,lf,crlf, or any other combination, can you point it out to me?
In any case, it is certainly likey that errors like this will continue,
and your program needs to be robust enough to handle it. Both of these
problems exist within the tnc where no one on this list can do anything
about it.

- > 3) The Course/Speed extension simply does not work in most
> software. I've actually tested WinAPRS, Findu, and Xastir,
> although I'm sure it doesn't work in most others, either.
> This extension is treated like part of the comment by
> these systems. Thus, the longer \$GPRMC string needs to be
> sent if this information is important to you.

Well, it works on findu, sometimes. On my recent trip I checked in frequently via WAP, and found about 25% of my posits had a course and speed. This is a bug I've known about for a while, and had looked briefly at the code to figure it out, but couldn't, so it got placed on the do list, where it presently resides at 87 of 139. Don't hold your breath! I've made it as clear as I can that findu is in a very early state of development, but it is not fully APRS compliant, never has claimed to be, and likely never will be. In all the time it has been up, no one every emailed me that there was a problem, and as long as that is the case, it will get buried deeped and deeper on the list...

It just came to light that the spec says it is OK to not have a trailing / after the course and speed, but since all the mainstream programs use one, it may be the source of the problems you note. Agains, since the spec is supposed to represent what exists, the correct action might be to add it to the spec, but that is up to the APRS WG, not you or I. You might want to repeat your test adding the slash and see what your results are.

> 4) Compressed packets are not understood by many simple
> applications. This causes our bandwidth usage to increase.
>
base 91 compression is 125 of 139 on the findu do list...

Steve

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 13 18:37:25 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA10332
for <lyris.aprsspec@tapr.org>; Wed, 13 Dec 2000 18:37:22 -0600 (CST)
From: "HarolSherrill" <w5hjs@home.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] cassiopeia
Date: Wed, 13 Dec 2000 18:34:43 -0600
Message-ID: <LYR11589-124447-2000.12.13-18.47.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)

X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2615.200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <LOBBIHGMIHFBEKHDAJDAEMBCBAA.w5hjs@home.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I Have a cassiopeia e 105 and cannot get aprs ce to work with it
it seems like i cannot get the com port to see data from the radio...i am
using the casio cradle as my seril port hookup to a d700 any ideas,
settings?

W5HJS

Harold Sherrill

Grid EM40 WA

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Dec 13 19:20:51 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA15542
for <lyris.aprsspec@tappr.org>; Wed, 13 Dec 2000 19:20:50 -0600 (CST)
Subject: [aprsspec] RE: cassiopeia
Date: Wed, 13 Dec 2000 20:17:01 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.4417.0
Message-ID: <LYR11589-124449-2000.12.13-19.28.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] cassiopeia
Thread-Index: AcBlZjfueAM+JmXWSXe5sni+0FaSdgABSvyg
From: "Woodrick, Ed" <ewoodrick@ed-com.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3BF69E507000F749921956EFC6B19084062CED@iago.ed-com.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can you access the TNC using the built-in terminal program?

Are you using a null modem cable?

-----Original Message-----

From: HaroldSherrill [mailto:w5hjs@home.com]
Posted At: Wednesday, December 13, 2000 7:35 PM
Posted To: Mail-Lists.APRS
Conversation: [aprsspec] cassiopeia
Subject: [aprsspec] cassiopeia

I Have a cassiopeia e 105 and cannot get aprs ce to work with it
it seems like i cannot get the com port to see data from the radio..i am
using the casio cradle as my seril port hookup to a d700 any ideas,
settings?

W5HJS

Harold Sherrill

Grid EM40 WA

You are currently subscribed to aprsspec as: Mail-Lists.APRS@ed-com.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 15 06:34:51 2000
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA08812
for <lyris.aprsspec@tapr.org>; Fri, 15 Dec 2000 06:34:50 -0600 (CST)
Message-ID: <LYR11589-124710-2000.12.15-06.46.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 15 Dec 2000 07:37:10 -0500

From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Network Functions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3A3A1076.3FB2FD39@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I'm brainstorming on another project and could use some insights from any who feel that they'd like to provide input...

In the APRS world, what are the various types of network functions (RF Only at this point, please) that are present?

Function	Invoked by these aliases
Digipeating	WIDE,RELAY,TRACE,WIDEn-N,TRACEn-N,mycall
Gateway	GATE, IGATE

Any others come to mind?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Dec 15 20:15:16 2000
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA06955
for <lyris.aprsspec@tappr.org>; Fri, 15 Dec 2000 20:15:14 -0600 (CST)
Date: Thu, 14 Dec 2000 07:54:50 GMT
Message-Id: <LYR11589-124832-2000.12.15-20.23.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: cassiopeia
From: Carl Littlejohns <carl_mail@dr.com>

Reply-To: carl_mail@dr.com
Mime-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
In-Reply-To: <LYR13751-124449-2000.12.13-19.28.47--
carl_mail#dr.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <VA.000001da.022d0d37@study>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

If the E105 is the same as the E115 (and the look the same :)) then the PC comms link automatically grabs the com port when you plug something in. On mine I have to click

programs|settings|connections|pc| and then uncheck the 'automatically synchronise' box.

Its a PITA achully :)

APRS/CE is nice tho - and the latest beta version handles all DosAPRS maps very well.

There is a list group for APRS/CE and all other ham related use of the pocketPc on www.egroups.com called hampocket - has about 25-30 members when I last looked so its not high-bandwidth :)

send an email to hampocket-subscribe@egroups.com

I think will subscribe you, or else you can to surf there.

I have yet to get mine to work with a v5 ROM TINY-2, but it is very happy with the kenwood THD7E

Carl GW0TQM
<http://www.findu.com/cgi-bin/find.cgi?gw0tqm-7>

> I Have a cassiopeia e 105 and cannot get aprs ce to work with it
> it seems like i cannot get the com port to see data from the radio..i am
> using the casio cradle as my seril port hookup to a d700 any ideas,
> settings?
> W5HJS
> Harold Sherrill

> Grid EM40 WA

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 6 15:17:52 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA06425
for <lyris.aprsspec@tappr.org>; Sat, 6 Jan 2001 15:17:51 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 16:17:41 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] UI messaging...
Message-ID: <LYR11589-128458-2001.01.06-15.30.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10101061605310.10439-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Apparently UI-View has implemented its own messaging format that is not compatible with the APRSSpec. Since it uses the TOCALL as the actual message TO-CALL, the APRS front end filters for ALTNETS will ignore these messages. I have no problem with this, its Roger's program... but it does raise the question of whether we want to add this to the APRSSpec as another form of messaging? Or whether we all want to add reception of this to our code...

It looks like he puts a tilde (~) as the first byte of the data (message) field and ends with ~xx which appears to be a line number for acking... I havent seen any acks to know... (of course this will cause stream switching and confusion to a dual Port KAM on HF with the use of the reserved "`" stream switch character...)

My only concern is that since UI view is predominately used in Europe and this messaging is not compatible with other APRS versions... it could lead to a divergence in the long term that will cause confusion to users who both think they are running "APRS" but in fact are not able to communicate.

Maybe when a UI user uses this form of messaging it is very clear that this is not APRS compatible, and thus there is no reason to be concerned since the user has made a conscious choice to not use APRS format... sort of a semi-private form of messaging...

I'm not taking any position here, it is just something I learned about today, and thought we might want to be discussing the implications of new formats on existing APRS networks...

Just a thought...

de WB4APR@amsat.org, Bob

See my APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>
See APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>
See MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/mim2.htm>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 15:30:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA07026
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 15:30:05 -0600 (CST)
Message-Id: <LYR11589-128459-2001.01.06-15.42.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Sat, 06 Jan 2001 16:27:13 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: UI messaging...
In-Reply-To: <LYR11608-128458-2001.01.06-15.30.19--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.2.7.2.20010106162653.00b43650@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 04:17 PM 1/6/01 -0500, Bob Bruninga wrote:

>Apparently UI-View has implemented its own messaging format that is not
>compatible with the APRSspec. Since it uses the TOCALL as the actual
>message TO-CALL, the APRS front end filters for ALTNETS will ignore these

>messages. I have no problem with this, its Roger's program... but it does
>raise the question of whether we want to add this to the APRSSpec as
>another form of messaging? Or whether we all want to add reception of
>this to our code...

Exceptions will drive you nuts.

--

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 16:29:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12078
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 16:29:26 -0600 (CST)
Message-ID: <LYR11589-128466-2001.01.06-16.41.51--
lyris.aprsspec@tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: UI messaging...
Date: Sat, 6 Jan 2001 16:29:05 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C077FD.CB7445C0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob,

Perhaps this was a decision by Roger to make UI-View
messaging non-compliant with APRS?

If changes were made to the spec to accomodate this

deviation, it would be a long time before existing APRS applications could correctly handle this. Some may never be changed.

Is the APRS WG still active? Haven't heard anything lately. Wasn't one of the tasks of this group was to check to see if applications were APRS spec compliant?

I don't think Roger was ever invited to participate in any case.

If individual authors can unilaterally add non-compliant messaging then the specification is not serving its purpose.

Bill KC9XG

On Saturday, January 06, 2001 3:27 PM, David VanHorn [SMTP:dvanhorn@cedar.net] wrote:

> At 04:17 PM 1/6/01 -0500, Bob Bruninga wrote:
> >Apparently UI-View has implemented its own messaging format that is not
> >compatible with the APRSspec. Since it uses the TOCALL as the actual
> >message TO-CALL, the APRS front end filters for ALTNETS will ignore these
> >messages. I have no problem with this, its Roger's program... but it does
> >raise the question of whether we want to add this to the APRSspec as
> >another form of messaging? Or whether we all want to add reception of
> >this to our code...

>
> Exceptions will drive you nuts.
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 16:35:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12318
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 16:35:47 -0600 (CST)
Message-ID: <LYR11589-128468-2001.01.06-16.48.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 6 Jan 2001 22:34:02 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: UI messaging...
References: <LYR13460-128458-2001.01.06-15.30.19--
roger#peaksys.co.uk@lists.tapr.org>

In-Reply-To: <LYR13460-128458-2001.01.06-15.30.19--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <KUXxrJAa15V6EwID@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-128458-2001.01.06-15.30.19--roger#peaksys.co.uk@lists.tappr.org>, Bob Bruninga <bruninga@usna.edu> writes
>Apparently UI-View has implemented its own messaging format that is not
>compatible with the APRSspec.
Etc...

Just a little "scene setting" - When I started writing UI-View well over two years ago, and developed its message format, compatibility with a non-existent spec for a protocol that was covered by a copyright claim, was not something that ever crossed my mind...

However, UI-View now supports both its own and APRS format messages, and I have given a great deal of thought to doing it in a way that should not cause a problem for users of other applications:-

If you install UI-View on a PC in the USA or Canada, then, provided the international settings in Windows are correct, by default the user does not have the UI-View message format option available. In other parts of the world, both message formats are available, and the user can set the default type.

If UI-View receives an APRS format message, then any future messages sent to the originator will default to being in APRS format.

UI-View will not pass UI-View format messages to an internet server, because my philosophy is that only APRS compatible traffic should be passed to the servers.

>I'm not taking any position here, it is just something I learned about
>today, and thought we might want to be discussing the implications of new
>formats on existing APRS networks...

As you will see from the above comments, it's not a "new format". Also, in most of the countries in which it is used, the level of APRS activity was virtually zero before UI-View became popular - there were no "existing APRS networks". I don't think any European countries even had

an APRS frequency allocation.

In the new era of "open" APRS, I've thought about removing the UI-View message format, but I don't think it causes any problems, and it does possess some advantages compared to APRS format messages. E.g. shorter frames, and parallel transmission, with reordering of messages received out of sequence.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 16:40:42 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12523
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 16:40:39 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 17:38:59 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: UI messaging...
In-Reply-To: <Pine.LNX.4.04.10101070009070.10083-1000000@pe1rdw.ampr.org>
Message-ID: <LYR11589-128470-2001.01.06-16.53.04--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10101061735500.11922-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 7 Jan 2001, PE1RDW (Andre) wrote:

> When you want to send a message to a a ui-view user you can pick aprs
> format or ui-view format, when you send to a non ui-view user you

> automaticly send a aprs format message, the same goes for a message via a
> igate.
>
> So there is no problem there.

Good, thanks. Thats good that it automatically knows to send APRS to APRS stations... and the user is clearly aware that he is using a different format so that other APRS stations wont see their messages...

> As for the stream switch char that does not have to be a problem, just use
> kiss mode, it is recomended anyhow as it gives the program more control
> over the frames.

GOod point. It only affects the sender, and since it is Uiview using KISS mode, then again, there is no problem with the tilde...

Thanks..bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 16:48:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12807
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 16:48:23 -0600 (CST)
From: "Jonathan Bradshaw" <Jonathan@NrgUp.Net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: UI messaging...
Date: Sat, 6 Jan 2001 22:47:43 -0000
Message-ID: <LYR11589-128473-2001.01.06-17.00.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
In-Reply-To: <LYR14840-128458-2001.01.06-15.30.19--
jonathan#nrgup.net@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <NDBBKJGHMCFBFANNEFNCIEDHCBAA.Jonathan@NrgUp.Net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

UI-View has done this for since before it was APRS compatible. UI-View was designed before APRS hit the UK but since it did Roger has included support for an increasing number of APRS elements.

--- From the help:

UI-View(32) supports two formats of message - it's own format and also APRS format. Although UI-View(32) format has some advantages over APRS format, users of other APRS software will not be able to receive UI-View(32) format messages. If you operate in an environment where most users aren't using UI-View(32), then you should use APRS format.

(and also...)

The default value for "No UI-View(32) extensions" varies depending on what country you are in. When UI-View32 is run for the first time, it checks your Windows country code against the list in the file NOEXTN.COD. If your country code is in that file, then UI-View32 extensions are disabled. Note that this only happens the very first time UI-View32 is run, so if you alter the setting for this parameter, UI-View32 won't change it.

--- End

An on-topic discussion would be if UI-View format could help improve APRS format in the future?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 17:09:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA14461
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 17:09:28 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 18:09:09 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: UI messaging...
In-Reply-To: <LYR11586-128466-2001.01.06-16.41.51--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-128476-2001.01.06-17.21.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10101061806410.11922-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 6 Jan 2001, Bill Diaz wrote:

> I don't think Roger was ever invited to participate in any case.

Yes he was, I personally invited him. I welcome his input since he is actively writing code. But he declined. I think his reasons were that he was just too busy to take on anything else right now...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 6 17:27:06 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15466
for <lyris.aprsspec@tappr.org>; Sat, 6 Jan 2001 17:27:04 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 18:26:43 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: UI messaging...
In-Reply-To: <LYR11586-128473-2001.01.06-17.00.07--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-128478-2001.01.06-17.39.30--

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10101061821130.11922-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 6 Jan 2001, Jonathan Bradshaw wrote:

> An on-topic discussion would be if UI-View format could help improve APRS
> format in the future?

Yes, I am always open to exploring new ideas. For example, some of us have implemented a "free-return" ACK protocol, that embeds a reply ack in all outgoing messages to help improve a two-station dialog.

This was done completely within the bounds of the protocol and the technique was shared with all the authors. It really speeds up dialgos since the ACKS are being now "forced" from the receiving end but with a free ride.. Its just an example of learning new ways to do things without tearing apart the spec...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 17:36:22 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA16997
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 17:36:17 -0600 (CST)
Message-ID: <LYR11589-128481-2001.01.06-17.48.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 6 Jan 2001 23:36:00 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: UI messaging...
References: <LYR11586-128468-2001.01.06-16.48.13--

bruninga#nadm.navy.mil@lists.tappr.org>
<Pine.GS0.4.05L.10101061812590.11922-1000000@arctic>
In-Reply-To: <Pine.GS0.4.05L.10101061812590.11922-1000000@arctic>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Y35FDqAgv6V6Ew54@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <Pine.GS0.4.05L.10101061812590.11922-1000000@arctic>, Bob
Bruninga <bruninga@usna.edu> writes
>Thanks Roger,
>
>Good explanation, and I see that you have covered all the bases, so that
>there is no problems. G0od work.
>
>Actually, I liked the idea of parallel messaging also as just another
>tool. Selectible when useful, or sequential at other times when
>important. I was going to add it to APRSdos but then Sprouls then
>abandoned it in WInAPRS because they did not have a means for assuring
>that missed information was obvious. I like your "blank" line approach...

They're not exactly blank, if message lines are missed, they are
replaced on the screen with lines saying e.g. -

seq. number 01
seq. number 02

Where the sequence number represents, in APRS terminology, the message
identifier. If/when those lines are received, then the "seq. number"
lines are replaced with the message lines.

This system can only work if the message identifier has a known, logical
format. So it would never work with APRS messages, because the message
identifier can be any random collection of "up to 5 alphanumeric
characters, no spaces".

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 6 17:37:02 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA17048
for <lyris.aprsspec@tappr.org>; Sat, 6 Jan 2001 17:36:57 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 18:36:27 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: UI messaging... (fwd)
Message-ID: <LYR11589-128482-2001.01.06-17.49.26--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GSO.4.05L.10101061830450.11922-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Thanks Roger,

And it looks like you made ver good provisions to assure there were not
incompatibilities of use... G0od work...

Actually, I liked the idea of parallel messaging also as just another
tool. Selectible when useful, or sequential at other times when
important. I was going to add it to APRSdos but then Sprouls then
abandoned it in WInAPRS because they did not have a means for assuring
that missed information was obvious. I like your "blank" line approach...

Bob

Roger Barker wrote:

- > However, UI-View now supports both its own and APRS format messages...
- > If you install UI-View on a PC in the USA or Canada, then, provided the
- > international settings in Windows are correct, by default the user does
- > not have the UI-View message format option available....

> If UI-View receives an APRS format message, then any future messages
> sent to the originator will default to being in APRS format....

> UI-View will not pass UI-View format messages to an internet server...

> As you will see from the above comments, it's not a "new format". Also,
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 17:41:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA17193
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 17:41:35 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 6 Jan 2001 18:41:01 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: UI messaging...
In-Reply-To: <LYR11586-128481-2001.01.06-17.48.45--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-128483-2001.01.06-17.54.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10101061838080.11922-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 6 Jan 2001, Roger Barker wrote:

> This system can only work if the message identifier has a known, logical
> format. So it would never work with APRS messages, because the message

> identifier can be any random collection of "up to 5 alphanumeric
> characters, no spaces".

Yep, that is the problem of a spec by committee. I always wanted and used
-sequential- numbering. They could be any numbers, but within one
message, I wanted them sequential for just the reasons you mention. But
other authors did not want to be bound by anything...

I do think that all of them do do things sequentially, but we can't prove
that now. oh well...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 6 19:15:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA25131
for <lyris.aprsspec@tapr.org>; Sat, 6 Jan 2001 19:15:40 -0600 (CST)
Message-ID: <LYR11589-128492-2001.01.06-19.28.10--
lyris.aprsspec@tapr.org>
Date: Sun, 7 Jan 2001 01:15:30 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: UI messaging...
References: <LYR13460-128466-2001.01.06-16.41.51--
roger@peaksys.co.uk>
In-Reply-To: <LYR13460-128466-2001.01.06-16.41.51--
roger@peaksys.co.uk>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <zRNvKLAyM8V6Ew\$W@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-128466-2001.01.06-16.41.51--roger@peaksys.co.uk@lists.tapr.org>, Bill Diaz <billdiaz@megsinet.net> writes
[snip]

>

>If individual authors can unilaterally add non-compliant messaging
>then the specification is not serving its purpose.

I hope that my comments elsewhere in this thread will illustrate that
your comment is irrelevant in the context in which the UI-View message
protocol was developed.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 10 03:49:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA06170
for <lyris.aprsspec@tapr.org>; Wed, 10 Jan 2001 03:49:42 -0600 (CST)
From: "Darryl Smith" <darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] On Air Protocols.
Date: Wed, 10 Jan 2001 20:52:19 +1100
Message-ID: <LYR11589-128994-2001.01.10-04.02.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V4.72.3110.3
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <001701c07aeb\$057daf00\$32ae2acb@de11.radio-active.net.au>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

People

One thing missing from the APRS spec is a brief summary of the common NMEA strings used by hams. There are only three or so, and these should be implemented in most software...

More importantly it seems that by using my D700 Kenwood in TNC mode I can transmit positions using an undocumented format, which might appear on air. The format is

```
VK2TDS>GPS:$PNTS,1,0,10,01,2001,001853,3400.4672,S,15051.7165,E,34,54.00,0,,  
000,1*2E
```

Most of it is easy to work out, but I think the speed and direction is somewhere encoded after the position...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au for domain names

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 10 09:51:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA04058
for <lyris.aprsspec@tapr.org>; Wed, 10 Jan 2001 09:51:36 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Wed, 10 Jan 2001 08:59:33 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: On Air Protocols.
In-Reply-To: <LYR21162-128994-2001.01.10-04.02.13--
jmaslak#antelope.net@lists.tapr.org>
Message-ID: <LYR11589-129011-2001.01.10-10.04.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.21.0101100850070.16963-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 10 Jan 2001, Darryl Smith wrote:

```
> VK2TDS>GPS:$PNTS,1,0,10,01,2001,001853,3400.4672,S,15051.7165,E,34,54.00,0,,  
> 000,1*2E
```

This string is also the default (!!??) string that the Alinco 135 will transmit.

The Alinco 135 TNC docs are very helpful with regards to the NMEA strings. I have these in electronic form, and I would be glad to send them to anyone who asks off-list. Please let me know if you want the .txt version (kind of hard to read) or the .pdf version. Note that I could not locate ANY copyright string, so I'm assuming that this material is public domain. If someone from Alinco contacts me and informs me otherwise, I will stop distributing it (although if you read the docs, you will like most of what you see).

As obligatory note for the SIG:

The \$PNTS string is defined as:
(straight from manual)

5-4-7 \$PNTS This is a private-sentence based on NMEA-0183. The data contains date, time, latitude, longitude, moving speed, direction, altitude plus a short message, group codes, and icon numbers. The EJ-41U does not analyze this format but can re-structure it.

The data contains the following information:

- * \$PNTS Starts the \$PNTS sentence
- * version
- * the registered information. [0]=normal geographical location data. This is the only data EJ-41U can re-structure. [s]=Initial position for the course setting [E]=ending position for the course setting [1]=the course data between initial and ending [P]=the check point registration [A]=check data when the automatic position transmission is set OFF [R]=check data when the course data or check point data is received.
- * Dd/mm/yyyy/hh/mm/ss: Date and time indication.
- * Latitude in DMD followed by N or S
- * Longitude in DMD followed by E or W
- * Direction: Shown with the number 360 degrees divided by 64. 00 stands for true north, 16 for east.
- * Speed in Km/h

- * One of 15 characters [0] to [9], [A] to [E]. NTSMRK command determines this character when EJ-41U is used.
- * A short message up to 20 bites. Use NTSMMSG command to determine this message.
- * A group code: 3 letters with a combination of [0] to [9], [A] to [Z]. Use NTSGRP command to determine.
- * Status: [1] for usable information, [0] for non-usable information.
- * *hh<CR><LF> the check-sum and end of PNTS sentence.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 11 06:14:33 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA02706
for <lyris.aprsspec@tapr.org>; Thu, 11 Jan 2001 06:14:26 -0600 (CST)
Message-ID: <LYR11589-129158-2001.01.11-06.26.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 11 Jan 2001 07:01:16 -0500
From: "Ev Tupis (W2EV)" <propnet@greeceny.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RFONLY/NOGATE alias support?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A5DA08C.EFD4C347@greeceny.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

** This is not a note that is intended to startup a debate over
privacy **

===== Introduction =====

With the advent of the January VHF Sweepstakes this upcoming

weekend, there will be several Rover-class stations activating their stations with UI-Packet on-board. The purpose of which is to announce their location (as a TX-only tracker) using all-amateur means.

They will be *not* using 144.39 MHz (the reasons are many, all of which have to do with assuring VHF Sweepstakes rules compliance).

I know that at least one APRS software title understands the RFONLY alias as a request from the sending station to *not* translate the posit to any other port (effectively keeping the posit from being passed to the Internet [a non-Amateur means of communication]). As a result, non-roving stations are being trained on the use of UI-View (thank-you, Roger!).

==== All of that for this simple question ==== :o)
Is there any other "APRS" software title that supports the RFONLY alias? If so, I'll also promote their use.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 11 07:57:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA09546
for <lyris.aprsspec@tapr.org>; Thu, 11 Jan 2001 07:57:00 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 11 Jan 2001 08:56:49 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: RFONLY/NOGATE alias support?
In-Reply-To: <LYR11586-129158-2001.01.11-06.26.52--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-129174-2001.01.11-08.09.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10101110850040.17447-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 11 Jan 2001, Ev Tupis (W2EV) wrote about VHF contest ROVERS using
RFOONLY beacons:

> I know that at least one APRS software title understands the
> RFOONLY alias as a request from the sending station to *not*
> translate the posit to any other port (effectively keeping the
> posit from being passed to the Internet [a non-Amateur means of
> communication]). As a result, non-roving stations are being
> trained on the use of UI-View (thank-you, Roger!).

I was not aware of this alias. So I doubt any of the APRS authors have
included it. (or I was asleep when it was discussed)... To my knowlege
all that discussion and blood we had about the issue resulted in only
filters on FINDU... no one (except apparently Roger) implemented any
RFOONLY type filtering? Of course it wont help with hardware-only
TNC-TCPIP Igate feeds, but there are not many of them...

But the simplest way to insure something is RF only is to use 3rd party
format. ALL Igates to my knowledge will "assume" that a 3rd party packet
was an IGated packet and so will not re-inject it into APRServe...

APRSDos supports this under the command alt-SETUP-FORMATS-3rdparty

Or at least the above is what I remember...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 11 08:16:33 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11186
for <lyris.aprsspec@tapr.org>; Thu, 11 Jan 2001 08:16:29 -0600 (CST)
Message-ID: <LYR11589-129181-2001.01.11-08.29.09--
lyris.aprsspec@tapr.org@lists.tapr.org>

From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: RFONLY/NOGATE alias support?
Date: Thu, 11 Jan 2001 08:16:08 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C07BA6.C40F52A0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev,
 AFilter supports NOGATE.
IGATES using AFilter can reject packets that contain NOGATE in the header.

Bill KC9XG

On Thursday, January 11, 2001 6:01 AM, Ev Tupis (W2EV)
[SMTP:propnet@greeceny.com] wrote:
> ** This is not a note that is intended to startup a debate over
> privacy **

SNIP

> ===== All of that for this simple question ===== :o)
> Is there any other "APRS" software title that supports the RFONLY
> alias? If so, I'll also promote their use.
>
> Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 11 08:40:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA13501

for <lyris.aprsspec@tapr.org>; Thu, 11 Jan 2001 08:40:24 -0600 (CST)
Message-ID: <LYR11589-129186-2001.01.11-08.53.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 11 Jan 2001 14:40:07 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: RFONLY/NOGATE alias support?
References: <LYR11586-129158-2001.01.11-06.26.52--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR13460-129174-2001.01.11-08.09.45--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-129174-2001.01.11-08.09.45--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <jhCr2kAHXcX6Ew0a@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-129174-2001.01.11-08.09.45--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes

>

>I was not aware of this alias. So I doubt any of the APRS authors have
>included it. (or I was asleep when it was discussed)... To my knowlege
>all that discussion and blood we had about the issue resulted in only
>filters on FINDU... no one (except apparently Roger) implemented any
>RFONLY type filtering? Of course it wont help with hardware-only
>TNC-TCPIP Igate feeds, but there are not many of them...

I implemented NOGATE and RFONLY by default, other "no gate" aliases can be configured.

I put it in with a proviso that it wasn't a lot of use unless other forms of IGATE used something similar. (Here in the UK it is some use, because most of the IGATEs are running UI-View.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 12 05:34:35 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA23344
for <lyris.aprsspec@tapr.org>; Fri, 12 Jan 2001 05:34:34 -0600 (CST)
Message-ID: <LYR11589-129279-2001.01.12-05.47.13--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 12 Jan 2001 06:35:06 -0500
From: "Ev Tupis (W2EV)" <propnet@greeceney.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: RFONLY/NOGATE alias support?
References: <Pine.GS0.4.05L.10101110850040.17447-1000000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A5EEBEA.B7B4DD63@greeceney.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Referring to the RFONLY alias, Bob Bruninga wrote:

> I was not aware of this alias. So I doubt any of the APRS
> authors have included it.

RFONLY has been adopted as a BEACONet alias, and is part of the growing BEACONet protocol specification (along with HOPn-N, and the APRS-defunct [GG##gg] position designator). Since the common thread that binds APRS(tm) and BEACONet(tm) is UI-Frame packet, and software exists to decode APRS(tm)-spec frames, it is easy for APRS authors to write-in BEACONet(tm) specific protocol support.

I simply wanted to find out which authors have written-in a specific feature that is important to Rover-category BEACONet(tm) stations. With the hopes that most of the authors (and those that are developing software on the sidelines) would be subscribed to this list...I floated the question here. It was one of those "thinking outside of the APRS(tm) box" questions. That's all, nothing more.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 15 22:52:17 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA07331
for <lyris.aprsspec@tapr.org>; Mon, 15 Jan 2001 22:52:16 -0600 (CST)
Message-Id: <LYR11589-129708-2001.01.15-23.05.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: kcechura@pop3.umn.edu
Date: Mon, 15 Jan 2001 22:49:11 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: kcechura@umn.edu
Subject: [aprsspec] APRS question
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3.0.6.32.20010115224911.0079deb0@pop3.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

ok, im new to this list, i hope i joined the right one to ask this
question.... IS THERE A WAY TO INTERFACE A LOWRANCE GLOBALMAP 100 TO A KAM
AND A LAPTOP TO DO APRS? is there anyone who can help with this?

thanks

"Ken

```

/=====\
|++++++|
|+      Ken Cechura      +          |+      Station
Manager, W0EEE    +|
|++++++|
|+ http://members.aol.com/kc9umr +|
\=====/
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Jan 16 11:18:42 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA16988
for <lyris.aprsspec@tappr.org>; Tue, 16 Jan 2001 11:18:41 -0600 (CST)
From: "Johann Lochner" <lochner@ing.sun.ac.za>
Organization: Universiteit van Stellenbosch
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Date: Tue, 16 Jan 2001 19:18:25 +0200
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Accommodating APRS harvesters
CC: Hans Grobler <grobh@sun.ac.za>
Message-ID: <LYR11589-129751-2001.01.16-11.31.38--
lyris.aprsspec#tappr.org@lists.tappr.org>
Priority: normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3A649E81.9621.47AE142@localhost>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi folks,

APRS client applications consider the APRS Internet System's content to be real-time. This restricts the contribution Sunsats and other "APRS harvesters" (and indeed a future ASTARS constellation) can make towards increasing the accessibility of the APRS network. I guess we should start sharing ideas on how this restriction can be overcome.

It is proposed that a header, opened by the < character and closed by the > character, be prepended to all delayed frames fed into the APRS Internet System:

```
<dd_t20010116T151934Z_p7823.92S01161.48W_a685477_f145900k_mAFSK_b1200_vPCSAT,SUNSAT-3,ZS1SUN-15_s1463_cVHF omni test>ZR1CBC-3>APRS,APRSAT:13355.66S/01851.97Eb
```

A two byte alpha-numeric frame identifier, that follows immediately after the opening < character, allows for future extension. The dd identifier, as shown in the above example, indicates that the frame contains delayed data. [1]

Every field starts with an _ delimiter and an alpha-numeric field

identifier, to facilitate parsing. More fields can be added as needs arise. Field ordering is not important. The following fields are proposed, at this stage: [2]

- _t Date and time the frame was harvested (always in UTC), presented in the the ISO 8601 Basic Format.
- _p Position of the harvester, specified by its latitude, followed by its longitude, in the standard APRS formats.
- _a Altitude, in meters, as given by the distance from the center of the earth or above some other standard reference point (still to be determined).
- _f Frequency, in hertz, on which the frame was harvested. An exact format must be determined. Use of the k, M and G unit prefixes (as shown in the example) is preferred.
- _m Modulation scheme used for the harvested frame. An exact format must be determined.
- _b Bitrate, in bit/s, at which the frame was harvested. An exact format must be determined. Use of unit prefixes is preferred.
- _v Path via which the frame enters the Internet. The first callsign identifies the harvester. Comma separated callsigns are appended as the frame progresses. The last callsign identifies the igate.
- _c Text comment for use by the harvester. A length limit should be determined.
- _s Sequence number, assigned by harvester. Incremented by one for every frame harvested.

As soon as a standard is agreed upon and aprsd passes on such frames, we will start injecting Sunsats digilogs (around 600 frames per day, at this stage) into the APRS Internet System.

73 de ZR1CBC, Johann

[1] A similar header, with a different frame identifier, can be used for future acknowledged ASTARS messaging.

[2] Only the _t and _v fields are required; the others are optional.

+-----+

JG Lochner ESL, Universiteit van Stellenbosch

e-pos: lochner@ing.sun.ac.za
webtuiste: <http://esl.ee.sun.ac.za/~lochner>

+-----+

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 20 03:28:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA13544
for <lyris.aprsspec@tapr.org>; Sat, 20 Jan 2001 03:28:37 -0600 (CST)
Message-ID: <LYR11589-130396-2001.01.20-03.41.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 20 Jan 2001 09:25:47 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Message ids and all that...
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <foI0USAbmVa6EwRl@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(I've moved here rather than carry on the discussion in HTAPRS, so anyone who hasn't read the "Problems w/New IGATE Service" thread in HTAPRS might find it worthwhile to do so.)

Seeing as I appear to be out of step with most other authors, I guess I'm going to have to change UI-View to ignore the sending callsign when processing an ack. However, I think the spec is ambiguous in this area, and I would suggest the following changes:-

1. It should be stated that the addressee field of a message need not be a valid AX25 address. I know it doesn't say it should be, but, in the context of packet radio, it's easy to associate a nine character address with a valid AX25 address, and I would presume that is what was originally intended.
2. It should be stated that the combination of originating callsign and message identifier should be sufficient to uniquely identify a message without reference to the addressee field.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 20 10:54:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA23489
for <lyris.aprsspec@tapr.org>; Sat, 20 Jan 2001 10:54:48 -0600 (CST)
Message-ID: <LYR11589-130465-2001.01.20-11.07.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Message ids and all that...
Date: Sat, 20 Jan 2001 10:54:28 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C082CF.5E98FEA0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Roger,

On Saturday, January 20, 2001 3:26 AM, Roger Barker [SMTP:roger@peaksys.co.uk] wrote:

> (I've moved here rather than carry on the discussion in HTAPRS, so
> anyone who hasn't read the "Problems w/New IGATE Service" thread in
> HTAPRS might find it worthwhile to do so.)

> Seeing as I appear to be out of step with most other authors, I guess
> I'm going to have to change UI-View to ignore the sending callsign when
> processing an ack. However, I think the spec is ambiguous in this area,
> and I would suggest the following changes:-

> 1. It should be stated that the addressee field of a message need not be
> a valid AX25 address. I know it doesn't say it should be, but, in the
> context of packet radio, it's easy to associate a nine character address
> with a valid AX25 address, and I would presume that is what was
> originally intended.

APRS was designed to work with data obtained or originated by a TNC that uses the AX25 protocol. If a packet does not conform generally to the AX25 protocol, APRS applications should not be required to relay or display these packets.

I feel that Origination, destination, vias, and addressee fields of messages should be valid AX25 addresses. This simplifies the processing of packets and permits legacy applications to operate without change.

Bill KC9XG

> 2. It should be stated that the combination of originating callsign and
> message identifier should be sufficient to uniquely identify a message
> without reference to the addressee field.

> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - <http://www.packetradio.org.uk>
> For WinPack go to - <http://www.peaksys.co.uk>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 20 12:50:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04592
for <lyris.aprsspec@tapr.org>; Sat, 20 Jan 2001 12:50:03 -0600 (CST)
Message-ID: <LYR11589-130478-2001.01.20-13.03.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 20 Jan 2001 18:49:39 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: Message ids and all that...
References: <LYR13460-130465-2001.01.20-11.07.53--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-130465-2001.01.20-11.07.53--

roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Bguz2vAD3da6Ewzj@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-130465-2001.01.20-11.07.53--roger#peaksys.co.uk@lists.tappr.org>, Bill Diaz <billdiaz@megsinet.net> writes

>Roger,
[snip]
>

>APRS was designed to work with data obtained or originated by a TNC that uses
>the AX25 protocol. If a packet does not conform generally to the AX25
>protocol, APRS applications should not be required to relay or display these
>packets.

>
>I feel that Origination, destination, vias, and addressee fields of messages
>should be valid AX25 addresses. This simplifies the processing of packets and
>permits legacy applications to operate without change.

I sympathise with your opinion, but the problem is that, as the spec stands, it is ambiguous as to exactly how both the addressee field and message numbers should be used. My suggested changes would bring the spec into line with what other authors already appear to be doing (based on the discussion in HTAPRS).

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jan 22 05:40:16 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA29314
for <lyris.aprsspec@tappr.org>; Mon, 22 Jan 2001 05:40:15 -0600 (CST)
Message-ID: <LYR11589-130686-2001.01.22-05.53.26--
lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Mon, 22 Jan 2001 11:40:01 -0500
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Source Callsigns and AX.25 [was:server connection loops]
References: <LYR1643-130642-2001.01.21-19.43.57--
roger#peaksys.co.uk@lists.tappr.org> <LYR21977-130682-2001.01.22-02.40.56--
w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3A6C6261.7BE6185C@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> >aprsdCLE>APD214,TCPIP*::PE10EZ :K8UI Cleveland_OH snoopy.gwr.com
> >137.148.206.10 n8xos@ohioaprs.net aprsd 2.1.4
>
> And aren't source callsigns supposed to be AX25 compliant?

Correctly written software (OSI Level 5, 6 and 7) must (by convention) abide by the rules as set forth by lower level protocols. Failure to do so often causes an application to be a "poor neighbor" to other connected systems (see the thread on "Unhandled Exception Errors" for probable symptoms of what some systems may do when encountering protocol-skirting

"aprsdCLE" appears in the source-address field of the frame cited above. It appears to contradict the following AX.25 protocol statements:

===== 2.2.13 Address-Field Encoding =====

The address field of all frames shall be encoded with both the destination and source amateur call signs for the frame. Except for the Secondary Station Identifier (SSID), the address field should be made up of upper-case alpha and numeric ASCII characters only. If level 2 amateur "repeaters" are to be used, their call signs shall also be in the address field.

=====2.2.13.1 Figure 1=====

... The source address subfield is then sent in octets A8 through A14.

=====

"aprsdCLE" uses lower case letters and is longer than 6 "ASCII" octets

(where the callsign goes) and uses a non-numeric value for octet 7 (where the SSID goes). [interestingly, I've found no mention that SSID must be numeric...only that it is something other than uppercase Alpha and numeric...maybe someone can clarify by citing the appropriate AX.25 convention?]

Unless I'm missing something, it seems that this ought to be brought to the attention of the author of aprsd for correction. Of course, I'm neither an author, nor considered an insider. My opinion and \$0.99 will get you a BigGulp at the corner mini market. :o)

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 22 14:58:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18822
for <lyris.aprsspec@tapr.org>; Mon, 22 Jan 2001 14:58:22 -0600 (CST)
Message-ID: <LYR11589-130745-2001.01.22-15.11.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 22 Jan 2001 20:58:57 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: [aprssig] Re: Source Callsigns and AX.25
References: <LYR1643-130734-2001.01.22-14.18.56--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR1643-130734-2001.01.22-14.18.56--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <DULzrKAR8Jb6EwZt@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR1643-130734-2001.01.22-14.18.56--roger#peaksys.co.uk@lists.tapr.org>, Bob Nielsen <nielsen@oz.net> writes
>Of course there are many other areas where the AX.25 specification is
>not rigorously adhered to. For example, the specifications also says
>that destination and repeater addresses, in addition to the source

>address are to be amateur callsigns plus SSID, which excludes such
>addresses as TRACE, WIDE, TCPIP, etc. I don't know if the APRS
>specification addresses this, but that might be an appropriate place to
>address this concern. Of course Net/Rom node addresses do not fit this
>model either. In fact, aliases are not mentioned at all in the AX.25
>specification.

The AX25 spec says that the address field consists of six characters,
plus SSID, and the characters should be upper-case alpha or numeric. The
address I highlighted wasn't an amateur radio callsign, but that's not a
problem - non-callsign aliases can still be legal AX25 addresses. The
problem was that it was eight characters, and some were lower case.

To pick up on PE1RDW's comment in another reply - I would think that the
structure of source addresses should be consistent, irrespective of
whether they originate on RF or on the internet. I can't find anything
in the spec that says otherwise, after all, frames created on the
internet masquerade as AX25 frames.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 22 15:15:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21169
for <lyris.aprsspec@tapr.org>; Mon, 22 Jan 2001 15:15:43 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Mon, 22 Jan 2001 21:18:33 +0000 (UTC)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>, aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Re: Source Callsigns and AX.25
In-Reply-To: <LYR20957-130743-2001.01.22-14.40.35--jmaslak#antelope.net@lists.tapr.org>
Message-ID: <LYR11589-130748-2001.01.22-15.28.53--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0101222117220.23772-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 22 Jan 2001, PE1RDW (Andre) wrote:

<talking about invalid APRS callsigns>

> Remember that this frame will never be send over the air in this form.
> It isn't even a frame but just a ascii line so ax25 is not a real problem
> here, its just the question if an aprs program can use it and that seems
> no problem.

Not true! My internet-only callsign, LARAMIE, is being gated back into RF
by another IGate who gates all traffic he doesn't hear that is a certain
range from him.

So...weird callsigns COULD crash machines...

--
Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 22 15:30:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21977
for <lyris.aprsspec@tapr.org>; Mon, 22 Jan 2001 15:30:11 -0600 (CST)
Date: Mon, 22 Jan 2001 23:38:09 +0100 (CET)
From: "PE1RDW (Andre)" <aprs@pe1rdw.demon.nl>
X-Sender: aprs@pe1rdw.ampr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Re: Source Callsigns and AX.25
In-Reply-To: <Pine.LNX.4.21.0101222117220.23772-100000@bigsky.antelope.net>
Message-ID: <LYR11589-130751-2001.01.22-15.43.22--
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.04.10101222333130.22251-1000000@pe1rdw.ampr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 22 Jan 2001, Joel Maslak wrote:

> On Mon, 22 Jan 2001, PE1RDW (Andre) wrote:
>
> > Remember that this frame will never be send over the air in this form.
> > It isn't even a frame but just a ascii line so ax25 is not a real problem
> > here, its just the question if an aprs program can use it and that seems
> > no problem.
>
> Not true! My internet-only callsign, LARAMIE, is being gated back into RF
> by another IGate who gates all traffic he doesn't hear that is a certain
> range from him.
>

> So...weird callsigns COULD crash machines...
>
Please corect me if I'm mistaken but all the internet trafic gated to rf
is supposed to be as a 3th party frame that would leave LARAMIE as ascii.
If any igate software does it any other way that software is to blame not
the originator.
> --
> Joel Maslak
> N7XUC
>

73 de Andre PE1RDW
aprsdigi co-ordinator Netherlands
member aprs workgroup netherlands
mailto:pe1rdw@aprsnl.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jan 22 15:39:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA22803
for <lyris.aprsspec@tapr.org>; Mon, 22 Jan 2001 15:39:45 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Mon, 22 Jan 2001 14:42:22 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Re: Source Callsigns and AX.25
In-Reply-To: <Pine.LNX.4.04.10101222333130.22251-100000@pe1rdw.ampr.org>
Message-ID: <LYR11589-130753-2001.01.22-15.52.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0101221439220.23819-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 22 Jan 2001, PE1RDW (Andre) wrote:

> Please corect me if I'm mistaken but all the internet traffic gated to rf
> is supposed to be as a 3th party frame that would leave LARAMIE as ascii.
> If any igate software does it any other way that software is to blame not
> the originator.

This is correct and it is what the other igate is doing - properly.

However, my concern is what happens when a station tries to plot my location on a map, assuming that the software plots the third party position reports. If the author assumed that this followed the AX25 spec, he will find that he allocated insufficient space for this call. The result will be overwritten memory, possibly causing a crash. My bet is that a short one like LARAMIE won't overwrite much, and won't be noticed by most people. But, I bet if someone stuck something "THISISAVEERYLONGINTERNETCALLANDIDONT CARE" as thier Internet call, it would crash many bad implementations.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 23 20:57:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA17243
for <lyris.aprsspec@tapr.org>; Tue, 23 Jan 2001 20:57:29 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Wed, 24 Jan 2001 03:00:32 +0000 (UTC)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] ?IGATE?
Message-ID: <LYR11589-130955-2001.01.23-21.10.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0101240239080.25193-1000000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I watched the Wyoming/Colorado network go to nearly 100% utilization in response to a single packet - an IGATE query. You see, the query got gated to the Internet and the responses got gated back to RF. I shut down my igate as soon as I noticed this, as I would rather not provide this service than trash the local RF LAN. Until I can patch aprsd, I'll stay down, too, as I believe that is the only thing I can do that is in compliance with the spirit of APRS. But, read on, for this isn't only an IGATE query problem.

If you send an IGATE query when you are near an igate, thousands of igates will flood your 1200 BPS RF LAN in response to your query, because not only will the local igates respond, but also most igates on the web will too!

Is there even a good reason to have an igate respond to an IGATE query that was sent over the Internet? I understand that it might not be a bad thing for it to respond if it gets the query over RF, as it helps network planners see what is going on. But, does anyone really want hundreds of

machines sending a reply?

Unfortunately, this isn't limited to IGATES. It also affects any other type of query for which thousands of machines could respond... Of course the IGATE is most effective because most of the other things you query for aren't directly connected to the internet.

Solutions?

LONG TERM:

- 1) Packets on the Internet that come from the RF stream should be marked as coming from the RF stream. This way, remote sites can determine if it should respond to a query received on the internet (it is okay to flood the internet; it is not okay to flood the RF stream)
- 2) Igates should have a timeout feature, just like our repeaters do. This prevents an unattended igate from really messing with the RF LAN. It should function on a duty cycle basis - say one packet every 15 seconds or something, possibly taking into account paths and such. IANAL, but I have to think that the spirit of Part 97 requires those of us running unattended stations to make sure that our systems don't interfere with the functions of a communications network.
- 3) The internet servers should automatically filter out broadcast queries that didn't come from the authorized user's call sign. This will prevent gated queries from being responded to by older software.

SHORT TERM:

- 1) ALL IGATES SHOULD BLOCK ALL BROADCAST QUERIES. There should be no exceptions. I'll be writing a patch sometime this week for aprsd. I'll be submitting it to the author and also posting it on the web with a URL for anyone interested in setting up more friendly igate. aprsd isn't the only software at fault, though, so I encourage APRS software authors to look at their software, too.
- 2) DON'T USE AN IGATE (or any other query which more than 1 machine will respond to) QUERY ON RF UNTIL YOU KNOW YOUR LOCAL RF LAN HAS ADDRESSED THIS PROBLEM. This is unfortunate, I realize, but I believe this is the only thing that can be done to keep the network sane.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 23 22:34:05 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA24389
for <lyris.aprsspec@tapr.org>; Tue, 23 Jan 2001 22:33:59 -0600 (CST)
Message-ID: <LYR11589-130963-2001.01.23-22.47.16--
lyris.aprsspec@tapr.org>
From: Bill Diaz <billldiaz@megsinet.net>
Reply-To: "billldiaz@megsinet.net" <billldiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: ?IGATE?
Date: Tue, 23 Jan 2001 22:33:34 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C0858C.8C155DA0.billldiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Joel,

On Tuesday, January 23, 2001 9:01 PM, Joel Maslak [[SMTP:jmaslak@antelope.net](mailto:jmaslak@antelope.net)]
wrote:

>
> I watched the Wyoming/Colorado network go to nearly 100% utilization in
> response to a single packet - an IGATE query. You see, the query got
> gated to the Internet and the responses got gated back to RF. I shut down
> my igate as soon as I noticed this, as I would rather not provide this
> service than trash the local RF LAN. Until I can patch aprsd, I'll stay
> down, too, as I believe that is the only thing I can do that is in
> compliance with the spirit of APRS. But, read on, for this isn't only an
> IGATE query problem.

A week or more ago, a station up in Canada sent repeated IGATE queries one
right after another. Sure stressed the Internet feed.

> If you send an IGATE query when you are near an igate, thosands of igates
> will flood your 1200 BPS RF LAN in response to your query, because not

> only will the local igates respond, but also most igates on the web will
> too!

Snip

> Solutions?

> LONG TERM:

> 1) Packets on the Internet that come from the RF stream should be marked
> as coming from the RF stream. This way, remote sites can determine if it
> should respond to a query received on the internet (it is okay to flood
> the internet; it is not okay to flood the RF stream)

It is not okay to flood the Internet IMO. Several Servers have maxed out T1 lines, and have had to either limit service or find another site with higher bandwidth. Many of the APRS servers are hosted free of charge by kind souls. We should not abuse this kindness.

Conservation of bandwidth should be practiced on both the Internet and RF. Elimination of excessive ?IGATE? queries is a start.

SNIP

> 3) The internet servers should automatically filter out broadcast queries
> that didn't come from the authorized user's call sign. This will prevent
> gated queries from being responded to by older software.

The servers should also filter out packets that are not APRS compliant. Many non-compliant packets are gated to RF, along with packets that contain no payload, defective headers, and assorted garbage packets.

Bill KC9XG

SNIP

> --
> Joel Maslak
> N7XUC
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jan 25 23:02:05 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA18642
for <lyris.aprsspec@tappr.org>; Thu, 25 Jan 2001 23:02:02 -0600 (CST)
Message-ID: <LYR11589-131252-2001.01.25-23.15.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Neil Johnson" <njohnson@interl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Dealing with Different Datums =>Geodetic Datum Overview
Date: Thu, 25 Jan 2001 23:01:40 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <023d01c08755\$13015c00\$0100a8c0@nandts>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I found this URL while researching the "Degree Confluence Project".

http://www.colorado.edu/geography/gcraft/notes/datum/datum_f.html

Near the bottom there is information on how to translate between different map datums.

Could this info be incorporated into APRS programs to alleviate issues with different MAP Datums We could modify the file format for map files to include information about the datum it uses, then have the program translate the GPS datum (usually WGS84) to the datum used by the map ?

Neil M. Johnson
njohnson@interl.net
<http://www.interl.net/~njohnson>
PGP Key Finger Print: 93C0 793F B66E A0C7 CEEA 3E92 6B99 2DCC

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 25 23:15:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA20022
for <lyris.aprsspec@tapr.org>; Thu, 25 Jan 2001 23:15:46 -0600 (CST)
Message-ID: <LYR11589-131258-2001.01.25-23.29.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-131252-2001.01.25-23.15.15--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Dealing with Different Datums =>Geodetic Datum Overview
Date: Thu, 25 Jan 2001 21:15:33 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <00ee01c08757\$03b25fe0\$7d92b3d1@celeron>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id XAA20022

The on-air Datum of APRS is WGS84. APRS+SA has coordinate conversion capability to take coordinate input in any of 100+ different map datums and convert to or from WGS84. It also can convert from Lat/Long to UTM coordinates.

Brent Hildebrand, KH2Z

APRS+SA
<http://www.tapr.org/~kh2z/aprsplus>
<ftp://ftp.tapr.org/aprssidg/winstuff/aprsplus>

[]

> I found this URL while researching the "Degree Confluence Project".
>

> http://www.colorado.edu/geography/gcraft/notes/datum/datum_f.html
>
> Near the bottom there is information on how to translate between different
> map datums.
>
> Could this info be incorporated into APRS programs to alleviate issues with
> different MAP Datums We could modify the file format for map files to
> include information about the datum it uses, then have the program translate
> the GPS datum (usually WGS84) to the datum used by the map ?
>
> Neil M. Johnson
> njohnson@interl.net
> <http://www.interl.net/~njohnson>
> PGP Key Finger Print: 93C0 793F B66E A0C7 CEEA 3E92 6B99 2DCC
>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jan 29 11:54:03 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA00960
for <lyris.aprsspec@tappr.org>; Mon, 29 Jan 2001 11:53:58 -0600 (CST)
Date: Mon, 29 Jan 2001 09:53:11 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Dealing with Different Datums =>Geodetic Datum Overview
In-Reply-To: <LYR12892-131252-2001.01.25-23.15.15--hacker@tc.fluke.com@lists.tappr.org>
Message-ID: <LYR11589-131756-2001.01.29-12.07.16--lyris.aprsspec@tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10101290948340.17898-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 25 Jan 2001, Neil Johnson wrote:

> I found this URL while researching the "Degree Confluence Project".
>
> http://www.colorado.edu/geography/gcraft/notes/datum/datum_f.html
>
> Near the bottom there is information on how to translate between different
> map datums.
>
> Could this info be incorporated into APRS programs to alleviate issues with
> different MAP Datums We could modify the file format for map files to
> include information about the datum it uses, then have the program translate
> the GPS datum (usually WGS84) to the datum used by the map ?

Yes! Xastir uses some limited datum translation capability of the PROJ.4 library (libproj) to do this in order to display USGS topo maps with the correct datum. In my county there's a 90 to 102 meter shift between NAD27 and WGS84 depending on where you are in the county.

If someone wants some GPL'ed example code in Perl that can translate between 231 map datums, get the Coordinate.pm Perl module from my site. It's easily translated to C. <ftp://ftp.eskimo.com/u/a/archer>

BTW: The DOS/Windows maps as used in Xastir are off by what appears to be a datum shift. It looks like the original data was NOT in WGS84 and the program that made the vector maps didn't do a datum shift. It's a Mac program that makes them, right? Closed source?

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 1 15:43:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03795
for <lyris.aprsspec@tapr.org>; Thu, 1 Feb 2001 15:43:17 -0600 (CST)
Message-ID: <LYR11589-132370-2001.02.01-15.56.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] ADMIN: Monthly Announcement
Date: Thu, 1 Feb 2001 15:42:18 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8204E40F8922D411A0C10008C7A42AC2235A9A@MRDNEXCH01>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like "what kind of printer should I buy to print out my copy of the APRS specification?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Feb 3 07:41:48 2001
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA17364
 for <lyris.aprsspec@tapr.org>; Sat, 3 Feb 2001 07:41:47 -0600 (CST)
 Message-ID: <LYR11589-132664-2001.02.03-07.55.30--
 lyris.aprsspec@tapr.org@lists.tapr.org>
 Date: Sat, 03 Feb 2001 08:41:25 -0500
 From: Ev Tupis <w2ev@rochester.rr.com>
 X-Accept-Language: en
 MIME-Version: 1.0
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Please help APRSHELP.COM
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3A7C0A84.5E5CA2B@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi folks,
APRSHelp is just the ticket. The name is easy to remember, and engenders the right emotion for visiting it. Unfortunately, information is only as good as the source. It does a good job of hitting the "intro" APRS software but contains not much on some of the other Amateur-grown stuff that exists such as Xastir, Afilter, AfilterX, PearlAPRS, UI-View, XAPRS, HamHUD and TinyTrak. (ie- what *is* Afilter and how is it used?)

If you are an author of one or more of these products, would you please forward the web page author some information about your product, so that it may be included there, too?

No, I'm not the author...but you may hit the website to find them. (or <mailto:kc5jgv@arrl.net>).

The potential for this website is great. Please support it with useful information.

Ev Tupis, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 6 19:06:56 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA10525
for <lyris.aprsspec@tappr.org>; Tue, 6 Feb 2001 19:06:56 -0600 (CST)
Message-ID: <LYR11589-133452-2001.02.06-19.20.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <billldiaz@megsinet.net>
Reply-To: "billldiaz@megsinet.net" <billldiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] APRServe WG
Date: Tue, 6 Feb 2001 19:06:38 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C0906F.F0A83920.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The adhoc APRServe WG will be posting messages here.

Any interested parties on this SIG yet?

Bill KC9XG

Display current vehicle location :
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 6 19:14:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA10676
for <lyris.aprsspec@tapr.org>; Tue, 6 Feb 2001 19:14:40 -0600 (CST)
Message-ID: <LYR11589-133453-2001.02.06-19.28.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 06 Feb 2001 20:13:32 -0500
From: Bruno Quesnel <quesnelb@ve2.ele.etsmtl.ca>
Reply-To: quesnelb@ve2.ele.etsmtl.ca
Organization: Ecole de technologie Superieure
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG
References: <LYR15694-133452-2001.02.06-19.20.47--
quesnelb#ve2.ele.etsmtl.ca@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A80A13C.FC2800AA@ve2.ele.etsmtl.ca>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I got the message and still interested in the participation of the group.

Bill Diaz wrote:

> The adhoc APRServe WG will be posting messages here.
>
> Any interested parties on this SIG yet?
>
> Bill KC9XG
>
> Display current vehicle location :
> <http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>
>
> ---
> You are currently subscribed to aprsspec as: quesnelb@ve2.ele.etsmtl.ca
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

--
Bruno Quesnel
Genie Electrique
Electrical Engineering
Ecole de Technologie Superieure
va2bmg@videotron.ca
quesnelb@ve2.ele.etsmtl.ca
queb1604@ele.etsmtl.ca
VA2 BMG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 6 19:49:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA14560
for <lyris.aprsspec@tapr.org>; Tue, 6 Feb 2001 19:49:44 -0600 (CST)
Message-ID: <LYR11589-133460-2001.02.06-20.03.40--
lyris.aprsspec#tapr.org@lists.tapr.org>

From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] APRServe WG preliminary discussions.
Date: Tue, 6 Feb 2001 19:49:30 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <01C09075.EDC11000.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

The primary purpose of the APRServe WG should be to improve the integrity of APRS data provided to TCP/IP users. We should begin to discuss some the areas that may require attention.

1. The linking of servers should provide a secure and reliable method of ensuring that all servers obtain all APRS data in a timely manner. The current APRServe network links must be documented. Steve Dimse has indicated that much of this is available. It should be compiled into a single document that can be used as a basis for producing the current network specification. Graphical representation of the network topology should be included. This can then be used to propose future enhancements to the existing network.
2. The present APRS network bandwidth requirements should be analyzed. Many of the sites and connectivity are provided to APRS at no cost. We should attempt to limit the impact that our activities have at these sites.
3. The APRS bandwidth requirements and effects on local RF links should be analyzed. Local RF issues are local issues. The APRServe network should provide a highly reliable feed to IGATES and accept data from verified users. Existing verification procedures should be examined, documented, and new methods proposed.
4. The proposed specification should incorporate provisions to permit the exclusion of data that is not APRS compliant. These provisions, if implemented by a server would eliminate any packets that are not recognized as APRS compliant packets. Servers would have the option of performing limited cleanup of APRS packet headers to remove non-essential TNC display formatting, rather than rejecting the packet outright. Further provisions could be adopted to eliminate APRS packet that carry no information.

No conversion or changes to payload data would be performed on the APRS packet payload information. Mic-E packets would not be converted.

Bill KC9XG

Display current vehicle location : <http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 6 20:07:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA16483
for <lyris.aprsspec@tapr.org>; Tue, 6 Feb 2001 20:07:30 -0600 (CST)
User-Agent: Microsoft-Entourage/9.0.2509
Date: Tue, 06 Feb 2001 21:11:03 -0500
Subject: [aprsspec] Re: APRServe WG
From: Stan Horzepa <stanzepa@mail2.nai.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-133466-2001.02.06-20.21.24--
lyris.aprsspec#tapr.org@lists.tapr.org>
In-Reply-To: <LYR11584-133452-2001.02.06-19.20.47--
stanzepa#mail2.nai.net@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <B6A618E6.10EF%stanzepa@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA16483

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapir.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topic≤ then you are violating this rule.
- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzepa, WA1LOU, wallou@tapr.org

On 2/6/01 8:06 PM, "Bill Diaz" <billldiaz@megsinet.net> wrote:

> The adhoc APRServe WG will be posting messages here.
>
> Any interested parties on this SIG yet?
>
> Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 09:44:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA00324
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 09:44:50 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 7 Feb 2001 10:44:36 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
In-Reply-To: <LYR11586-133460-2001.02.06-20.03.40--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-133583-2001.02.07-09.58.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10102071019430.16649-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 6 Feb 2001, Bill Diaz wrote:

<snip>>
> Bill KC9XG

I agree with all you wrote.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 10:37:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA04715
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 10:37:36 -0600 (CST)
Message-ID: <LYR11589-133594-2001.02.07-10.51.30--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRServe question
Date: Wed, 7 Feb 2001 10:37:19 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C090F1.F48D6880.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

APRServe seems to be operating better today.

However, I noticed that a packet sent to first.aprs.net, and third.aprs.net does not get echoed back to the sender. A packet sent to second.aprs.net gets echoed back as expected.

Why the difference between servers?

Bill KC9XG

Display current vehicle location :
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 10:54:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07483
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 10:54:00 -0600 (CST)
Message-Id: <LYR11589-133602-2001.02.07-11.07.47--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: APRServe question
Date: Wed, 7 Feb 2001 11:53:20 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200102071653.IAA08913@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/7/01 11:37 AM Bill Diaz (billdiaz@megsinet.net) wrote:

>However, I noticed that a packet sent to first.aprs.net, and third.aprs.net
>does not get echoed back to the sender. A packet sent to second.aprs.net
>gets
>echoed back as expected.

>

>Why the difference between servers?

>

The answer lies in the title of your question. Only second.aprs.net is
APRServe, a Macintosh program I wrote and the original hub. The other two
run aprsd. Technically the title should be "APRS Internet System
question".

aprsd does not echo sent data back to the originator, while APRServe
does. Personally I think it is better that the sender see their data
echoed, I don't recall the reason Dale chose not to...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 12:48:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA21263
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 12:48:16 -0600 (CST)
Message-ID: <LYR11589-133663-2001.02.07-13.02.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: APRServe question
Date: Wed, 7 Feb 2001 11:01:35 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C09104.1A5A5C00.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve,

On Wednesday, February 07, 2001 10:53 AM, Steve Dimse [SMTP:k4hg@tapr.org]
wrote:

> On 2/7/01 11:37 AM Bill Diaz (billdiaz@megsinet.net) wrote:

> >However, I noticed that a packet sent to first.aprs.net, and third.aprs.net
> >does not get echoed back to the sender. A packet sent to second.aprs.net
> >gets echoed back as expected.

> >

> >Why the difference between servers?

> The answer lies in the title of your question. Only second.aprs.net is
> APRServe, a Macintosh program I wrote and the original hub. The other two
> run aprsd. Technically the title should be "APRS Internet System
> question".

> aprsd does not echo sent data back to the originator, while APRServe
> does. Personally I think it is better that the sender see their data
> echoed, I don't recall the reason Dale chose not to...

Ok, thanks. My expectation was that when connected to a server I would see all data that the server was passing. This is something that needs to be looked into. The echoing of sender packets confirms that the packet was indeed accepted by the server.

Bill KC9XG

> Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 14:37:58 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29777
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 14:37:54 -0600 (CST)
Message-Id: <LYR11589-133680-2001.02.07-14.51.47--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Wed, 7 Feb 2001 15:37:33 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200102072037.MAA07902@avocet.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/6/01 8:49 PM Bill Diaz (billdiaz@megsinet.net) wrote:

>1. The linking of servers should provide a secure and reliable method of
>ensuring that all servers obtain all APRS data in a timely manner.
>The current APRServe network links must be documented. Steve Dimse has
>indicated that much of this is available. It should be compiled into a
>single

>document that can be used as a basis for producing the current network
>specification. Graphical representation of the network topology should be
>included. This can then be used to propose future enhancements to the
>existing
>network.

>

Reality, or my ideal? The former is going to be impossible to document.
My idea of how it should be is three servers at the center, each
interlinked with the other two on port 1313, and every other user and
IGate connected to one of the three with a verified connections on port
23/10152 (most IGates and users not desiring buffer dumps on connect),
port 1314 (IGates desiring the smallest bandwidth, or 10151 (users
desiring buffer dump)).

>2. The present APRS network bandwidth requirements should be analyzed.
>Many of the sites and connectivity are provided to APRS at no cost. We
>should
>attempt to limit the impact that our activities have at these sites.

>

At this time it is very manageable, running about 50k bytes/sec at all
the sites, about a third of a T1, and all except www.aprs.net have a
better connection than that.

>3. The APRS bandwidth requirements and effects on local RF links should be
>analyzed.
>Local RF issues are local issues.

I agree, so why is this analysis part of the IGate process? From the
beginning it has been the policy of the internet system not to impact
upon the local LANs. aprsd provides the possibility to negatively impact
the network if misconfigured, while APRServe doesn't give those sort of
options. That is a philosophical question that the new aprsd author will
need to decide. Personally, I was happy with my decision to hardcode the
potentially QRM causing parameters to prevent problems.

>The APRServe network should provide a
>highly
>reliable feed to IGATES and accept data from verified users. Existing
>verification procedures should be examined, documented, and new methods
>proposed.

>

This is a biggie. A decision has to be made whether to secure the stream
at all, and if so, some robust scheme needs to be developed and
implemented. Not a task for the skittish!

>4. The proposed specification should incorporate provisions to permit the
>exclusion of data that is not APRS compliant.

On this count I favor less rather than more. The only check APRServe performs is that a line looks like a packet, roughly 3-9 chars followed by a '>' followed eventually by a ':' and at least 6 chars of data, total length less than 250 bytes. This eliminates much of the garbage without being overly restrictive to changes.

>These provisions, if implemented by a server would eliminate any packets
>that
>are not recognized as APRS compliant packets.

The problem is that the spec is not static, any substantive change means updating all IGates before the new format can be used. While ideally people would update their software regularly, there are many users with very old versions out there.

> Servers would have the
>option of
>performing limited cleanup of APRS packet headers to remove non-essential
>TNC
>display formatting, rather than rejecting the packet outright.

Something to consider...when I was maintaining the system, something I would have killed for is an ID of the exact path a packet took through the internet system. My eventual plan was to have each IGate strip off any unused digis in the path, then add the callsign of the station which sent it to them (rather than having each IGate add their own call), providing traceability of the packet. With a strong verification system, it would make it simple to track offenders.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 15:15:29 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA04121
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 15:15:24 -0600 (CST)
Message-ID: <LYR11589-133689-2001.02.07-15.29.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 7 Feb 2001 11:43:53 -0800 (PST)
From: Bill Vodall <wa7nwp@yahoo.com>
Reply-To: wa7nwp@yahoo.com
Subject: [aprsspec] RE: APRServe question
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

In-Reply-To: <LYR19173-133663-2001.02.07-13.02.06--
wa7nwp@yahoo.com@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20010207194353.15716.qmail@web3606.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> > aprsd does not echo sent data back to the originator, while
> APRServe
> > does. Personally I think it is better that the sender see their
> data
> > echoed,

It's time to start playing with aprsD. Echoing received data
(optionally) is near the top of the list. Any other enhancement
requests?

Bill

Do You Yahoo!?
Yahoo! Auctions - Buy the things you want at great prices.
<http://auctions.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 16:00:51 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA08241
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 16:00:48 -0600 (CST)
Message-ID: <LYR11589-133702-2001.02.07-16.14.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 7 Feb 2001 14:00:12 -0800 (PST)
From: Bill Vodall <wa7nwp@yahoo.com>
Reply-To: wa7nwp@yahoo.com

Subject: [aprsspec] Re: APRServe WG preliminary discussions.
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
In-Reply-To: <LYR19173-133680-2001.02.07-14.51.47--
wa7nwp@yahoo.com@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20010207220013.20870.qmail@web3602.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Stirring the pot a bit.

> My idea of how it should be is three servers at the center, each
> interlinked with the other two on port 1313,

Why only 3? Why not an unlimited number? 3 will be overloaded. It's
only a matter of time.

>and every other user and
> IGate connected to one of the three with a verified connections on
> port
> 23/10152 (most IGates and users not desiring buffer dumps on
> connect),

Port 23 is telnet. There are reasons (firewalls) to use it for a
server but it's something that should be discouraged.

>
> >4. The proposed specification should incorporate provisions to
> permit the exclusion of data that is not APRS compliant.
>
> On this count I favor less rather than more. The only check APRServe
> performs is that a line looks like a packet,

That's good. Maybe make a separate port for the non-spec packets.
Trash the real garbage. Pass packets that are close.

We also need a scheme for passing experimental packets under the
guise of APRS.

> Something to consider...when I was maintaining the system, something
> I

> would have killed for is an ID of the exact path a packet took
> through
> the internet system.

The originating TCP system could flag the packet with
something like NWPTCP-1* instead of the current TCPIP*

> My eventual plan was to have each IGate strip off
> any unused digis in the path, then add the callsign of the station
> which sent it to them

Another good idea.

Why don't we either use aprsspec or set up a new mailreflector
for discussing this. Make it an OPEN discussion OPEN to
everybody concerned. Build a spec from the consensus.

Bill

Do You Yahoo!?

Yahoo! Auctions - Buy the things you want at great prices.
<http://auctions.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 16:11:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA09348
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 16:11:42 -0600 (CST)
Errors-To: <bdheaton@c4i2.com>
Message-ID: <LYR11589-133704-2001.02.07-16.25.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brian D Heaton" <bdheaton@c4i2.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRSServe WG
Date: Wed, 7 Feb 2001 22:06:37 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3

X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <03da01c09152\$a1b4cb60\$1445a8c0@c4i2.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I'll run some data captures of the current servers this weekend from work.
Unless someone has additional suggestions I'll do the following:

- 1 - feed data capture - capture the actual information coming across the server links (after passing through the daemon and as it crosses the wire)
- 2 - take packet traces (via tcpdump) of connect, disconnect, and data injection
- 3 - take packet traces (via tcpdump) of the same actions via the various client programs I've got available.
- 4 - dig through the APRSd source for the raw network I/O code to see if there are any gotchas hiding.

I'm open to suggestions and will have just about everything except a Mac available to test on.

73/N5VFF

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 16:23:32 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA10069
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 16:23:25 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Wed, 7 Feb 2001 15:29:20 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.

In-Reply-To: <LYR21162-133702-2001.02.07-16.14.45--
jmaslak#antelope.net@lists.tappr.org>
Message-ID: <LYR11589-133707-2001.02.07-16.37.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.LNX.4.21.0102071508390.558-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I know people probably won't like these suggestions. They involve updating software, using newer computers (I.E. less than 5 years old) as key network nodes, and improving the network. That said, I'm going to suggest it anyhow. ;)

I believe the concept that "everyone needs all the traffic" is not beneficial for APRS - or any other high volume linking network. Hopefully, the technology we develop here can be used on the radio waves as well as the internet!

Why does my APRS client at home care if N7F00BAR is talking to KC7BARF00? I might care about his position report, but probably not his messages.

Granted, most of the APRServe backbone traffic is simple posits, but I bring this up because of the damage the current system is doing to the RF network. (I run an Igate, and think the damage is better than going without the service, but I would prefer to operate in a slightly more professional manner)

Reality tells me that more than one user will run an Igate in a small area. True, we shouldn't do that with the current network, but it happens. I'm surprised if I see less than three Igates gating messages into my local LAN (and I only gate if I hear the person within one digi hop - I may even turn all outgoing gating off). This can and should be reduced.

What I propose has been done on almost every other packet network outside of APRS. The Internet does it this way, as does IPX, and most commercial packet switching networks. We might be able to learn from these.

Basicly, I propse ARIP. This would be similar to RIP on the Internet, but

with the modifications needed to work on APRS. This would also allow messaging to work efficiently with more than one

The packet format on the IP network would be different than it is now. It would consist of 16 (this should be enough for now) 32 bit numbers (yes, this would increase the size of the packet - but bear with me - it will decrease the loops and such greatly). Each of these numbers is an IP address, which work like a "Received From:" header in an Internet mail message. This will allow easy detection of loops, and also of too many hops (any packet with all 16 slots "filled" gets discarded).

In addition, each packet contains a "secondary network hop count". This would be the RF hop count, as best as could be determined. The "total" hop count to the station could be easily determined by adding this number with the number of IP addresses.

Of course, the APRS packet would also be included in this message.

When a NODE (not an end user) receives a packet, it would look at the "total hop count" and see if the total hop count for that sender was less than the total hop count a local "routing table" (which expires every 30 minutes or so). If it is, it updates the routing table with the IP of the downstream destination - which we know is closer to the source station.

There would also be a special "Routing Information Packet" which says, effectively, "the routes I had for stations X, Y, and Z are no longer valid."

If a packet is found for which there is no known route, it would be sent to all IGates.

This way, when a non-broadcast packet (messaging) is sent, a node could look at the routing table, decide which station seems best, and send the packet there. It would allow transparent backup functionality to the network. If 10 people run igates, only one would get any particular packet to gate back to RF. If someone lost their IP connection, that route would be removed by the Routing Information Packet, and, shortly, new routes would become established.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 16:24:01 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA10082
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 16:23:55 -0600 (CST)
Message-Id: <LYR11589-133708-2001.02.07-16.37.41--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Wed, 7 Feb 2001 17:23:24 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200102072223.0AA12197@avocet.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 2/7/01 5:00 PM Bill Vodall (wa7nwp@yahoo.com) wrote:

>> My idea of how it should be is three servers at the center, each
>> interlinked with the other two on port 1313,
>
>Why only 3? Why not an unlimited number? 3 will be overloaded. It's
>only a matter of time.
>
Three is a number adequate for the present level of traffic, and given
that all three are on connections greater than T-1, they can handle
roughly 6 times the present level of traffic.

If you are suggesting that everyone become a central server, this is
asking for trouble. First, the number of interconnections rises rapidly:

1 server 0
2 servers 2
3 servers 6
4 servers 12
5 servers 20

more generally $(n-1)*n$.

Next, as long as the software allows user-configurability, the governing

group must verify each server is correctly configured. Manageable with three stable sites, very difficult with 100 or more.

Finally, each time a server is added, all the others must update their interconnection lists, another administrative nightmare.

```
>>and every other user and
>> IGate connected to one of the three with a verified connections on
>> port
>> 23/10152 (most IGates and users not desiring buffer dumps on
>> connect),
>
>Port 23 is telnet. There are reasons (firewalls) to use it for a
>server but it's something that should be discouraged.
>
Well, discouraged is a relative term. Do you really want to cut off an
entire class of users? Many people at least work behind tight firewalls
that block non-standard ports like 10152. Port 23 is almost always open
to outgoing connections, allowing these people to participate in the
system.
```

What is the harm in this that it should be discouraged? At the central sites, owners must move their telnet connections to another port, which takes 10 seconds. None of the other users care what port telnet is on. A nice side effect is that telnet, the most common hacking port, has a little security through obscurity.

```
>>
>> >4. The proposed specification should incorporate provisions to
>> permit the exclusion of data that is not APRS compliant.
>>
>> On this count I favor less rather than more. The only check APRServe
>> performs is that a line looks like a packet,
>
>That's good. Maybe make a separate port for the non-spec packets.
>Trash the real garbage. Pass packets that are close.
>
Close is a relative term. What do you mean? I generally oppose anything
more than what I described APRServe does.
```

```
>We also need a scheme for passing experimental packets under the
>guise of APRS.
```

```
>
There is one, look in the spec under "User-defined format".
>
>> Something to consider...when I was maintaining the system, something
>> I
>> would have killed for is an ID of the exact path a packet took
>> through
```

>> the internet system.

>

>The originating TCP system could flag the packet with
> something like NWPTCP-1* instead of the current TCPIP*

>

Well, it turns out that TCPIP* is important, it shows that the packet came from a verified station. If you eliminate this, you must provide another means to flag unvalidated packets (or eliminate validation altogether).

>Why don't we either use aprsspec or set up a new mailreflector
>for discussing this. Make it an OPEN discussion OPEN to
>everybody concerned.

I thought were already are doing this.

> Build a spec from the consensus.

>

That's a lot harder than it sounds!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 16:51:53 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12843
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 16:51:51 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 7 Feb 2001 17:51:28 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions. (fwd)
Message-ID: <LYR11589-133713-2001.02.07-17.05.41--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10102071749200.17328-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/6/01 8:49 PM Bill Diaz (billldiaz@megsinet.net) wrote:

>1.... Grahphical representaion of the network topology should be
>included. This can then be used to propose future enhancements to the
>existing network.

Being a map oriented person, I always thought this would be fun to do. A live NETWORK map drawn in real time showing geographically the links that were currently operational. Glad to see it on your list...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 16:57:24 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA13294
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 16:57:19 -0600 (CST)
Message-Id: <LYR11589-133714-2001.02.07-17.11.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Wed, 7 Feb 2001 17:46:55 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102072246.0AA19802@avocet.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/7/01 5:29 PM Joel Maslak (jmaslak@antelope.net) wrote:

>I believe the concept that "everyone needs all the traffic" is not

>beneficial for APRS - or any other high volume linking
>network.

I disagree strongly. The everyone-gets-everything paradigm is central to APRS in general, not just the Internet portion, at is in large measure responsible for its success.

>

>Why does my APRS client at home care if N7FOOBAR is talking to
>KC7BARF00? I might care about his position report, but probably not his
>messages.

>

And yet the message page is the third most popular web page (after find and weather) on findu.com, with 3000 views in the last week alone. "Reading the mail" is a time-honored tradition in ham radio, and clearly popular. While it is clear you don't like it, it is what has made the internet backbone so very popular. It is important to leave room for what other people enjoy in APRS as well as what

>Granted, most of the APRServe backbone traffic is simple posits, but I
>bring this up because of the damage the current system is doing to the RF
>network. (I run an Igate, and think the damage is better than going
>without the service, but I would prefer to operate in a slightly more
>professional manner)

>

Well, there is no reason that messages should get passed from the internet to rf unless the recipient is "local" (generally 2 or less digi hops), and the sender is not local. If you are seeing this traffic, then it is due to a misconfigured or incorrectly coded IGate.

>Reality tells me that more than one user will run an Igate in a small
>area. True, we shouldn't do that with the current network, but it
>happens. I'm surprised if I see less than three Igates gating messages
>into my local LAN (and I only gate if I hear the person within one digi
>hop - I may even turn all outgoing gating off). This can and should be
>reduced.

>

This is a matter of local coordination. One of the ideas I had considered, but tabled as too complex, was to have each IGate look for other IGates and not transmit if they are not primary.

Instead, what was planned to eventually get implemented was for an IGate to generate a random few second delay when it has a message to send, and listen first. If the message is heard on RF within that time, it means another IGate has sent it, and therefore the other IGate will not send it. A special case of no-delay could be added for a "primary" IGate in each area, but of course if you do it, there is one more parameter for the operator to mis-configure ;-)

>What I propose has been done on almost every other packet network outside
>of APRS. The Internet does it this way, as does IPX, and most commercial
>packet switching networks. We might be able to learn from these.
>
>Basicly, I propse ARIP. This would be similar to RIP on the Internet, but
>with the modifications needed to work on APRS. This would also allow
>messaging to work efficiently with more than one
>
I want to think about this a little longer before I reply, comments to
follow in a separate email...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 16:58:17 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA13370
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 16:58:16 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 7 Feb 2001 17:57:07 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
In-Reply-To: <LYR11586-133680-2001.02.07-14.51.47--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-133715-2001.02.07-17.12.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10102071751310.17328-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 7 Feb 2001, Steve Dimse wrote:

> Something to consider...when I was maintaining the system, something I

> would have killed for is an ID of the exact path a packet took through
> the internet system. My eventual plan was to have each IGate strip off
> any unused digis in the path, then add the callsign of the station which
> sent it to them (rather than having each IGate add their own call),
> providing traceability of the packet.

Exactly. This is what I had wanted so that we could use the PATH as the loop filter, and trace agent. As it is, we use the 3rd party format identifier which makes any other use of the 3rd party format unworkable via an RF-INTERNET path. Just a thought to put on the "future" list.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 17:02:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA14553
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 17:01:53 -0600 (CST)
Errors-To: <bdheaton@c4i2.com>
Message-ID: <LYR11589-133717-2001.02.07-17.15.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brian D Heaton" <bdheaton@c4i2.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11627-133707-2001.02.07-16.37.23--
bdheaton#c4i2.com@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Wed, 7 Feb 2001 22:59:08 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <03f601c09159\$979c65a0\$1445a8c0@c4i2.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Couple thoughts:

All opinions are my own and open for discussion --

1 - our first task is to document the current transport protocol interactions as they exist today.

2 - in parallel (although hopefully secondary for the folks working on #1) we can examine various methods of crafting an APRSServe V2.0 (just made that up) protocol suite. The protocol suite itself might just expand on the interaction between servers and the interaction between servers and clients. (I know that "server" and "client" can get a bit fuzzy, but its the closest I can get)

As part of this exercise we might think of the the server software as consisting of several modules

(note: this is a reference model)

- IP network transport - make sure we get the bits from A-B in a consistent format
- Session control - some type of capability determination and request/response mechanism for data
- Authentication - challenge/response and who is allowed to do what to whom.
- AX.25 inbound filtering - what do we send to IP
- AX.25 outbound filtering - what do we send from IP
- IP inbound filtering - what do we accept from connected machines (support for machine/class level configs)
- IP outbound filtering - what do we send to connected machines (support for machine/class level configs)
- stateful packet parsing engine - able to determine packet type and possibly other data (hopefully most of the work is already in PerlAPRS)

I'm thinking about a session control protocol that would go something like this:

Client/Server (or server/server) -

1. client initiates connection request to server
2. server checks IP rules to see if client is allowed to connect
3. client authenticates with server
4. client and server negotiate client's desired data vs. server capability
5. server and client exchange data according to #4
6. server or client can initiate graceful disconnect

4 - the heaviest detail will be involved in #4. I think we need to thrash around a bit on what level we want to negotiate down to. Some possibilities:

- only within X nm radius of point X

- only weather reports
- only messages (or no messages not addressed to stations not on this connection)
- etc, etc, etc

Sounds like loads of fun to me!!!

73/N5VFF (actually M/N5VFF/P until I get a UK ticket)

----- Original Message -----

From: "Joel Maslak" <jmaslak@antelope.net>
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 Sent: Wednesday, February 07, 2001 10:29 PM
 Subject: [aprsspec] Re: APRServe WG preliminary discussions.

>
 > I know people probably won't like these suggestions. They involve
 > updating software, using newer computers (I.E. less than 5 years old) as
 > key network nodes, and improving the network. That said, I'm going to
 > suggest it anyhow. ;)
 >
 > I believe the concept that "everyone needs all the traffic" is not
 > beneficial for APRS - or any other high volume linking
 > network. Hopefully, the technology we develop here can be used on the
 > radio waves as well as the internet!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 17:11:21 2001
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15245
 for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 17:11:17 -0600 (CST)
 Message-Id: <LYR11589-133718-2001.02.07-17.25.07--
 lyris.aprsspec#tapr.org@lists.tapr.org>
 Subject: [aprsspec] Re: APRServe WG preliminary discussions.
 Date: Wed, 7 Feb 2001 18:10:52 -0500
 x-sender: sdimse@earthlink.net
 From: Steve Dimse <k4hg@tapr.org>
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102072310.PAA26563@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/7/01 5:57 PM Bob Bruninga (bruninga@usna.edu) wrote:

>Exactly. THis is what I had wanted so that we could use the PATH as the
>loop filter, and trace agent. As it is, we use the 3rd party format
>identifier which makes any other use of the 3rd party format unworkable
>via an RF-INTERNET path. Just a thought to put on the "future" list.
>

Loops are easy to prevent by proper configuration, I don't think we need
it for loop prevention, but regardless I do think it is a good idea.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 17:20:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15538
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 17:20:12 -0600 (CST)
Message-ID: <LYR11589-133723-2001.02.07-17.34.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 7 Feb 2001 15:19:37 -0800 (PST)
From: Bill Vodall <wa7nwp@yahoo.com>
Reply-To: wa7nwp@yahoo.com
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
In-Reply-To: <200102072223.0AA12197@avocet.prod.itd.earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20010207231937.20762.qmail@web3603.mail.yahoo.com>

Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

> If you are suggesting that everyone become a central server, this is
> asking for trouble. First, the number of interconnections rises
> rapidly:
>
> 4 servers 12
> 5 servers 20
>
> more generally $(n-1)*n$.

If each hub connected to two or three other hub's, everybody
would get everything. Why should all the hubs have to connect
to all the other hubs? Make it a true mesh network. It would be
possible for areas to "break off". That would have to be considered.

> Well, discouraged is a relative term. Port 23 is almost always
> open

> What is the harm in this that it should be discouraged?

No real harm beyond the fact that it makes the hubs non-standard.
Does hub 2 also support 10151 in parallel with 23? The more
consistency there is between systems, the better!

> Close is a relative term. What do you mean? I generally oppose
> anything more than what I described APRServe does.

Close is what you described.

> Well, it turns out that TCPIP* is important, it shows that the packet
> came from a verified station. If you eliminate this, you must provide
> another means to flag unvalidated packets

Of course. Wouldn't a scheme that provides both validation info AND
identify the originating IGate be a good thing?

>
> >Why don't we either use aprsspec or set up a new mailreflector
> >for discussing this. Make it an OPEN discussion OPEN to
> >everybody concerned.
>
> I thought were already are doing this.

There is talk of a new committee.

> > Build a spec from the consensus.
> >
> That's a lot harder than it sounds!

For sure.

Bill

Do You Yahoo!?

Yahoo! Auctions - Buy the things you want at great prices.
<http://auctions.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 17:44:00 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA18112
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 17:43:59 -0600 (CST)
Date: Wed, 7 Feb 2001 17:43:50
Subject: [aprsspec] Re: APRServe WG
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Jeff King" <jeff@aerodata.net>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-133733-2001.02.07-17.57.56--
lyris.aprsspec@tapr.org>
Precedence: bulk

On 02/06/01, "Bill Diaz <billdiaz@megsinet.net>" wrote:
> The adhoc APRServe WG will be posting messages here.
>
> Any interested parties on this SIG yet?

I'm here now, but had long ago unsubscribed from this list.
As this got started on APRSSIG, I'd recommend you post that
the discussion has moved here as I see no reference to it
on APRSSIG.

Personally, I'd rather see a independant list focused on the task at hand but whatever works. This is, or was, the TAPR sponsored WG "peanut gallery" list, and until we know its status, mixing the groups might confuse the issue. I'd most certainly ask their permission to host here if your going to stay.

Of course, the new list should be open access and not private like the previous TAPR WG list was.

-Jeff

>
> Bill KC9XG
>
> Display current vehicle location :
> <http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 17:48:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA18714
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 17:48:15 -0600 (CST)
Message-ID: <LYR11589-133735-2001.02.07-18.02.07--
lyris.aprsspec@tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Open Discussion
Date: Wed, 7 Feb 2001 18:49:10 -0500
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <BF01BF9F0651D311B7A100104B716B90B183CA@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Jeff said....

snip

> Of course, the new list should be open access and not private
> like the previous TAPR WG list was.
>
> -Jeff
>
 AMEN !!!!!!!!!!!!!!!!!!!!!!!

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 17:52:10 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
 by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19400
 for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 17:52:03 -0600 (CST)
Message-ID: <LYR11589-133737-2001.02.07-18.05.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 07 Feb 2001 18:49:47 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] non-offical Draft paper outline
References: <LYR22299-133733-2001.02.07-17.57.56--
jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3A81DF1B.AFE914CC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I just wrote down some things I'd like to see in a draft

outline. I am sure I missed some things. Please add what is missing.

Thanks

Jeff

We really have three tasks here.

1. Document what exists so someone can develop applications for it.
2. Document need ommisions and fixes (to both server and clients) (*)
3. Document extensions (**)

Don't forget we do need to get on paper what exists as well as what needs to be fixed and what needs to be extended. Here is my view on it:

OVERVIEW of APRSERVE network (use Steve's papers)

BASIC STUFF

Connecting to the server (basic port numbers)
Decoding posits (reference to APRS protocol document?)
Client verification (source code snippet)
Enter posits

MESSAGING

Overview (use Steve's paper)
Sending messages (APRS protocol document?)
Recieving messages
Internal server communication (port numbers ect)
 Message passing
**Extensions to messaging
 RF message gateway selection
 Least hop routing
 Least power routing

FILTERING

Message Dup's (source code snippet or structure description)
*Non-compliant packet filtering
**Geo-Filtering
 By feed
 By client (might be OK on smaller FAST servers)

CLIENTS

Connection to the server, rules

Messaging rules

- I see you, you see me, (flood broadcast)

- **Who are my RF neighbors

- **What are their RF footprints

- **List of stations nearby (lat/lon)

- **Least power routing

- **Server selection of gateway message station

Client gateway rules

- *Only gateway APRS compliant packets

- *No protocol conversions done on gatewayed packets

- *No math conversions done on any gatewayed frames

Future extensions/fixes (framework for developers, not set in stone)

- Go over justifications for extensions and food for thought.

Anyways, that is my laymans view of it.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 18:15:36 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20553

for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 18:15:34 -0600 (CST)

Date: Wed, 7 Feb 2001 18:15:8

Subject: [aprsspec] Re: APRServe WG preliminary discussions.

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: "Jeff King" <jeff@aerodata.net>

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Sender: bounce-aprsspec-11589@lists.tapr.org

Message-Id: <LYR11589-133742-2001.02.07-18.29.21--

lyris.aprsspec@tapr.org>

Precedence: bulk

Catching up on old mail...

On 02/07/01, "Bill Vodall <wa7nwp@yahoo.com>" wrote:

> Stirring the pot a bit.

>

> > My idea of how it should be is three servers at the center, each

> > interlinked with the other two on port 1313,

>

> Why only 3? Why not an unlimited number? 3 will be overloaded. It's

> only a matter of time.

Agree. While I'd question to infinity, 3 clearly is too small of a number, even for just the U.S. let alone the world. If the number is going to be statically fixed, then you want to make sure you have one directly downstream

of each network hub (Chicago, Washington and San Jose). Then of course other continents/counties should have them near their major switch sites.

> >and every other user and

> > IGate connected to one of the three with a verified connections on

> > port

> > 23/10152 (most IGates and users not desiring buffer dumps on

> > connect),

>

> Port 23 is telnet. There are reasons (firewalls) to use it for a

> server but it's something that should be discouraged.

Agree 100%. I believe the IETF (that right?) assigns port numbers and while we may not need a specific assignment, we shouldn't co-op other adopted port numbers. I think anything above 1023 is fair game with some exceptions.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 18:23:46 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA21099

for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 18:23:42 -0600 (CST)

Date: Wed, 7 Feb 2001 18:23:33

Subject: [aprsspec] Re: APRServe WG preliminary discussions.

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: "Jeff King" <jeff@aerodata.net>

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Message-Id: <LYR11589-133753-2001.02.07-18.37.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
Precedence: bulk

On 02/07/01, ""Brian D Heaton" <bdheaton@c4i2.com>" wrote:

> 1 - our first task is to document the current transport protocol
> interactions as they exist today.

Yes, agree 100%. Trying to find all the documentation as it exists now is tedious at best. Should be a document that 90% of experinced developers can use to develop a application with no questions asked. The system is actually fairly simply.... this task will be alot easier then the over the air spec.... but locating all the info can be challeging.

> 2 - in parallel (ahthoug hopefully secondary for the folks working on #1)
> we can examine various methods of crafting an APRSServe V2.0 (just made that
> up) protocol suite.

Also agree 100% here. Bill Diaz through his hard work has found a number of "warts" in the system. As we document I'm sure we will find more. The APRSSERVE system, unlike the client base, is fairly small in numbers. Hence getting everyone to update will be far easier and we have no need for a legacy mindset. So why put it off?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 18:28:44 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA21840
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 18:28:43 -0600 (CST)
Date: Wed, 7 Feb 2001 18:28:31
Subject: [aprsspec] Re: APRSServe WG preliminary discussions.
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

From: "Jeff King" <jeff@aerodata.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Message-Id: <LYR11589-133759-2001.02.07-18.42.35--
lyris.aprsspec#tappr.org@lists.tappr.org>
Precedence: bulk

On 02/07/01, "Bill Vodall <wa7nwp@yahoo.com>" wrote:

> > 5 servers 20
> >
> > more generally $(n-1)*n$.
>
> If each hub connected to two or three other hub's, everybody
> would get everything. Why should all the hubs have to connect
> to all the other hubs? Make it a true mesh network. It would be
> possible for areas to "break off". That would have to be considered.

Isn't that how the NOS convers servers do it? I know at one time they had
a nice map made up of the entire convers server network... I'll need to
see if I can find the link to it.... I think the fellow doing MFNOS was
behind it.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 18:44:03 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA22291
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 18:44:00 -0600 (CST)
Message-ID: <LYR11589-133766-2001.02.07-18.57.58--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: kbrown@powerhouseproductions.com (Kevin Brown)
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR22300-133742-2001.02.07-18.29.21--
kbrown#powerhouseproductions.com@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Wed, 7 Feb 2001 18:44:53 -0600

MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <02fd01c09168\$59c0ae80\$08db0ecf@187th.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

: > > My idea of how it should be is three servers at the center, each
: > > interlinked with the other two on port 1313,
: >
: > Why only 3? Why not an unlimited number? 3 will be overloaded. It's
: > only a matter of time.

3 centralized servers (or some other magic number) could very well be appropriate with some caveats.

- 1) No client connections.
- 2) Load-sharing/balancing. ergo: nearest server routing. Basically a hierarchy to distribute outbound traffic. These server should learn something from an IP routing protocol whereas they only send data to "registered neighbors" who have connectivity via a qualified path to the source and/or destination station. This WILL reduce load network wide.
- 3) Lets NOT forget about the bigger portion of the network: RF similar features for dissemination of data between nodes needs to be created.

: Agree 100%. I believe the IETF (that right?) assigns port numbers and

Yes. Without going into ad-nauseum detail, it would be difficult to obtain a "well known port" assignment unless we subject ourselves to writing a IETF draft/RFC-like document.

: while we may not need a specific assignment, we shouldn't co-op other
: adopted port numbers. I think anything above 1023 is fair game with
: some exceptions.

Well known ports, both UDP and TCP are assigned through 1023. You are correct that anything beyond those ports is fair game up to 16,535 (could be

wrong on max...rusty).

Further, I really think the widen-n routing scheme was a great start in the right direction. There is no reason why the network couldn't have a bit more intelligence to determine nearest neighbors. It will always be a "broadcast" packet by nature of radio. But if this intelligence is coupled with some sort of compliance checking algorithms to determine that a neighbor is truly APRSSpec compliant can't hurt.

How many times have each of you found someone who just loaded any of the APRS software programs, and configured themselves as a WIDE and as such, reduced the overall coverage of your local network? It's happened around here before. Until someone NOTICES that someone is being a WIDE with 5 watts at 20 feet, it can be strange.

Finally, I know many of you have seen my posts with regards to the spec. I want to go on record however saying that I firmly enjoy the capabilities of APRS, and am willing to step up to the plate to help whenever possible. That being said though...an ounce of paranoia isn't a bad thing. There are people out there, and yes even in the amateur community that can/will take advantage of other folks hard work. I didn't want any work on the APRS spec to suffer any such fate.

For the record... I'm a data networking engineer, and would like to try to apply some of the rulesets of making wireline networks more robust to the APRS spec.

```
:
: -Jeff
:
: ---
: You are currently subscribed to aprsspec as:
kbrown@powerhouseproductions.com
: To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
: Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
:
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
```

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 18:48:19 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA22922
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 18:48:13 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-133767-2001.02.07-19.02.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 07 Feb 2001 19:45:24 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A81EC24.EF863EC7@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

All caught up...

On 02/07/01, "Joel Maslak <jmaslak@antelope.net>" wrote:
> I know people probably won't like these suggestions. They involve
> updating software, using newer computers (I.E. less than 5 years old) as
> key network nodes, and improving the network. That said, I'm going to
> suggest it anyhow. ;)

I've heard these same arguments applied to the end users. They
are even more specious when applied to server sysops. You would be hard
pressed to do much of anything on the internet with software/hardware
that was older then 3 years let alone 5.

Or look at it another way, what does that 5 year old computer hardware
cost? \$200 at a used computer store? If a guy can't afford that, he
certainly can't afford the internet bandwidth to be able to function
as a server. If you want to run with the big dogs, it costs money.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 19:23:29 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA25781
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 19:23:22 -0600 (CST)
Message-ID: <LYR11589-133770-2001.02.07-19.37.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Neil Johnson" <njohnson@interl.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR22300-133742-2001.02.07-18.29.21--
kbrown#powerhouseproductions.com@lists.tapr.org>
<LYR11619-133766-2001.02.07-18.57.58--njohnson#interl.net@lists.tapr.org>
Subject: [aprsspec] Verification
Date: Wed, 7 Feb 2001 19:23:10 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00eb01c0916d\$b3ae9600\$0100a8c0@nandts>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have an idea for verification: use public key cryptography (on the Internet side only of course).

The RSA public key encryption algorithm is now in the public domain so:

0. APRS Verifier creates a permanent public/private key pair.
1. Each APRS User generates a public/private key pair.
2. Each APRS User submits public key, call sign, and maybe some dough (a couple of bucks, maybe via PayPal, to show they are serious or compensate the APRS verifier for bandwidth, server h/w, support) to the APRS Verifier's website.
3. APRS Verifier checks the APRS User's info. If it is up to snuff, signs the APRS User's key with it's private key, and sends a "pick-up-number" to the APRS User.
4. APRS User uses pick-up number to retrieve signed-public key from APRS

Verifier's web site.

To be verified.

1. APRS User connects to an APRS Server.
2. APRS Server sends a "challenge" to the APRS User
3. APRS User signs "challenge" with private key, sends signed challenge and verified signed public key back to the APRS Server.
4. APRS Server decodes "challenge" with APRS User's public key , proving it came from that user. Checks APRS Verifier's signature with the APRS Verifier's public key, proving that APRS User has been verified.

(I think there is a better way to do this, but my copy of "Applied Cryptography" is not at hand).

Advantages:

- Prevents Spoofing
- Can have several APRS Verifiers

Disadvantages:

- Adding Cryptography to existing APRS clients could be difficult (although public available crypto libraries are available for most languages/platforms).

(sound feasible ?)

Neil M. Johnson

njohnson@interl.net

<http://www.interl.net/~njohnson>

PGP Key Finger Print: 93C0 793F B66E A0C7 CEEA 3E92 6B99 2DCC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 20:00:16 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA28801
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 20:00:13 -0600 (CST)
From: K3for@aol.com
Message-ID: <LYR11589-133776-2001.02.07-20.14.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 7 Feb 2001 20:58:41 EST
Subject: [aprsspec] Re: Re: APRServe WG preliminary discussions.
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: aprsspec@lists.tappr.org
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <c9.d0c7bc8.27b35751@aol.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

A lot have folks have *talked* about what they would do. Some have even *analyzed* some of the problems. But before I judge the current system, it would only be fair to draft a new "spec", write a different client side, write a new server side, invest in the hardware, find someone to help with the T1 backbone, host a site for folks to download the install and help documentation (and registration) -assuming they meet the min h/w req'ts, and monitor and debug it for a while.

As mentioned, it's more user errors than system weakness.

What we've built to now doesn't seem so bad then, and look at the effort it took!

Thanks! Most of military projects don't turn out so well.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 7 21:43:33 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA07678
for <lyris.aprsspec@tappr.org>; Wed, 7 Feb 2001 21:43:33 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-133787-2001.02.07-21.57.16--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 07 Feb 2001 22:39:33 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.

References: <LYR22299-133759-2001.02.07-18.42.35--
jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A8214F5.16229BBF@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff King wrote:

> I know at one time they had
> a nice map made up of the entire convers server network... I'll need to
> see if I can find the link to it....

Here it is:

<ftp://ftp.intac.com/pub/hamradio/tcpip/mfnos/spamnet/spamnet.map>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 7 22:34:29 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA11124
for <lyris.aprsspec@tapr.org>; Wed, 7 Feb 2001 22:34:24 -0600 (CST)
Message-ID: <LYR11589-133796-2001.02.07-22.48.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Focus
Date: Wed, 7 Feb 2001 22:33:53 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01C09156.0F8BA980.billldiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Our first priority should be documenting the existing network and how it presently operates. Steve has provided much of the needed information and insight into the many of the design decisions. Others have supplied much useful information.

We need a volunteer to compile information provided by Steve into a single document. Who is willing to accept this responsibility?

The network improvment postings have covered quite a bit of ground. Suggestions for network improvements seem to fall into 2 general categories.

1. Improvements to the existing network.
2. New network design.

IMO, initial improvements should be limited to those that would preserve the ability of existing client applications to function without change. A second phase could focus on improvements that provide additional services that may require changes to existing client applications.

Perhaps we could start a new thread that would focus on proposals for the next generation network? Of course, a new network design would require that APRS application developers agree to make changes to take advantage of the design.

Bill KC9XG

Display current vehicle location :
<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 00:59:48 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA25057
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 00:59:46 -0600 (CST)
Date: Thu, 8 Feb 2001 01:59:19 -0500

From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Message-ID: <LYR11589-133831-2001.02.08-01.13.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
Reply-To: jon@snoopy.net
References: <LYR19173-133680-2001.02.07-14.51.47--wa7nwp#yahoo.com@lists.tappr.org>
<LYR22292-133702-2001.02.07-16.14.45--jon#snoopy.net@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
In-Reply-To: <LYR22292-133702-2001.02.07-16.14.45--jon#snoopy.net@lists.tappr.org>;
from wa7nwp@yahoo.com on Wed, Feb 07, 2001 at 02:00:12PM -0800
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20010208015919.E20136@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Previously, Bill Vodall (wa7nwp@yahoo.com) wrote:

> Port 23 is telnet. There are reasons (firewalls) to use it for a
> server but it's something that should be discouraged.

Using port 23 is, in my opinion, a horrible idea. The only reason it's running on third.aprs.net is so I'm conforming with first & second, and even then it's a redir to 10152. There's no way I'm going to allow aprsd to run as root just so it can bind to a privileged port we shouldn't be using in the first place.

-j

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 01:08:41 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id BAA26194

for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 01:08:40 -0600 (CST)
Date: Thu, 8 Feb 2001 02:08:21 -0500
From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] list
Message-ID: <LYR11589-133832-2001.02.08-01.22.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: jon@snoopy.net
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20010208020820.F20136@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Personally, I think we should have our own list for this discussion.

To that end, I've created one. I'll leave it up to you all to decide if we use it, but you may join by visting this URL:

<http://www.ohioaprs.net/mailman/listinfo/aprserve-wg>

The list is open to anyone.

-j

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 01:39:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA27103
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 01:39:42 -0600 (CST)
Date: Thu, 8 Feb 2001 02:39:26 -0500
From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: list
Message-ID: <LYR11589-133834-2001.02.08-01.53.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: jon@snoopy.net
References: <LYR22292-133832-2001.02.08-01.22.31--jon#snoopy.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
In-Reply-To: <LYR22292-133832-2001.02.08-01.22.31--jon#snoopy.net@lists.tapr.org>;
from jon@snoopy.net on Thu, Feb 08, 2001 at 02:08:21AM -0500
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20010208023926.G20136@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Just for kicks, I've also created an APRS WikiWikiWeb, which might be useful for documentation, or it might not.

You can check it out at:

<http://www.ohioaprs.net/wiki/>

-j

Previously, Jon Anhold (jon@snoopy.net) wrote:

> Personally, I think we should have our own list for this discussion.
>
> To that end, I've created one. I'll leave it up to you all to decide if we
> use it, but you may join by visting this URL:
>
> <http://www.ohioaprs.net/mailman/listinfo/aprserve-wg>
>
> The list is open to anyone.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 02:49:06 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA01505
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 02:49:06 -0600 (CST)
Message-ID: <LYR11589-133835-2001.02.08-03.03.03--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Thu, 8 Feb 2001 08:50:38 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: list
References: <LYR13460-133832-2001.02.08-01.22.31--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-133832-2001.02.08-01.22.31--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <CITzsgAe3lg6Ewg7@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-133832-2001.02.08-01.22.31--roger#peaksys.co.uk@lists.tappr.org>, Jon Anhold <jon@snoopy.net> writes
>Personally, I think we should have our own list for this discussion.
>
>To that end, I've created one. I'll leave it up to you all to decide if we
>use it, but you may join by visting this URL:
>
> <http://www.ohioaprs.net/mailman/listinfo/aprserve-wg>

Given that this list is called APRSSPEC, and the discussion is about an
APRS SPECification, I would have thought that it was an absolutely ideal
place to discuss it.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 03:17:59 2001

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id DAA03395
for <lyris.aprsspec@tapir.org>; Thu, 8 Feb 2001 03:17:58 -0600 (CST)
Date: Thu, 8 Feb 2001 04:17:44 -0500
From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: list
Message-ID: <LYR11589-133837-2001.02.08-03.31.57--
lyris.aprsspec#tapir.org@lists.tapir.org>
Reply-To: jon@snoopy.net
References: <LYR13460-133832-2001.02.08-01.22.31--
roger#peaksys.co.uk@lists.tapir.org> <LYR22292-133835-2001.02.08-03.03.03--
jon#snoopy.net@lists.tapir.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
In-Reply-To: <LYR22292-133835-2001.02.08-03.03.03--jon#snoopy.net@lists.tapir.org>;
from roger@peaksys.co.uk on Thu, Feb 08, 2001 at 08:50:38AM +0000
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
X-Message-Id: <20010208041743.I20136@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

As I said, I'll leave it up to you all. I thought this list was for "the"
APRS Spec, and perhaps a forum dedicated to the APRServe topic
would be appropriate.

-j

Previously, Roger Barker (roger@peaksys.co.uk) wrote:
> In article <LYR13460-133832-2001.02.08-01.22.31--roger#peaksys.co.uk@lis
> ts.tapir.org>, Jon Anhold <jon@snoopy.net> writes
> >Personally, I think we should have our own list for this discussion.
> >
> >To that end, I've created one. I'll leave it up to you all to decide if we
> >use it, but you may join by visting this URL:
> >
> > <http://www.ohioaprs.net/mailman/listinfo/aprserve-wg>
> >
> Given that this list is called APRSSPEC, and the discussion is about an

> APRS SPECification, I would have thought that it was an absolutely ideal
> place to discuss it.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 04:02:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id EAA15164
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 04:02:13 -0600 (CST)
Message-ID: <LYR11589-133845-2001.02.08-04.16.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 8 Feb 2001 10:03:48 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: list
References: <LYR13460-133832-2001.02.08-01.22.31--
roger#peaksys.co.uk@lists.tapr.org>
<LYR22292-133835-2001.02.08-03.03.03--jon#snoopy.net@lists.tapr.org>
<20010208041559.H20136@snoopy.net>
In-Reply-To: <20010208041559.H20136@snoopy.net>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Rr1HEBBE8mg6Ewxi@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <20010208041559.H20136@snoopy.net>, Jon Anhold
<jon@snoopy.net> writes
>My understanding was that we are not discussing the APRS Specification, but
>the APRServe network and related topics.
>
>Am I mistaken?

Well, I thought the discussion was about a proposed specification for
the APRS internet server network, which I would class as an APRS
specification. But perhaps this list was only supposed to be for THE
APRS spec?

[snip previous comments]

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:02:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA23954
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:01:59 -0600 (CST)
Message-Id: <LYR11589-133864-2001.02.08-07.15.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: list
Date: Thu, 8 Feb 2001 08:01:29 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200102081301.FAA04207@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/8/01 3:50 AM Roger Barker (roger@peaksys.co.uk) wrote:

>Given that this list is called APRSSPEC, and the discussion is about an
>APRS SPECification, I would have thought that it was an absolutely ideal
>place to discuss it.

>

I agree, I will not be moving to any other list...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 07:17:21 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA24850
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 07:17:21 -0600 (CST)
Message-ID: <LYR11589-133867-2001.02.08-07.31.21--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Verification
Date: Thu, 8 Feb 2001 06:56:27 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01C0919F.26E763A0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Neil,

Your proposal should be considered for the next generation network. Perhaps this discussion and items related to the next generation network could be contained in threads dedicated to this purpose.

Would be beneficial if we could use subjects that indicate if our posts relate to improving the existing network or a new network.

Subjects similar to:

RE:[aprsspec] New or RE:[aprsspec] Improve

Could be used to permit SIGGERS to view the posts that may be of interest to them.

Bill KC9XG

On Wednesday, February 07, 2001 7:23 PM, Neil Johnson

[SMTP:njohnson@interl.net] wrote:

> I have an idea for verification: use public key cryptography (on the
> Internet side only of course).

>

> The RSA public key encryption algorithm is now in the public domain so:

SNIP

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:17:24 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA24859
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:17:23 -0600 (CST)
Message-ID: <LYR11589-133866-2001.02.08-07.31.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 06:45:11 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C0919F.25A0D9E0.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Kevin,

On Wednesday, February 07, 2001 6:45 PM, Kevin Brown
[SMTP:kbrown@powerhouseproductions.com] wrote:
> : > > My idea of how it should be is three servers at the center, each
> : > > interlinked with the other two on port 1313,
> : >
> : > Why only 3? Why not an unlimited number? 3 will be overloaded. It's
> : > only a matter of time.

> 3 centralized servers (or some other magic number) could very well be
> appropriate with some caveats.

> 1) No client connections.

Regional servers or hubs could be employed to provide end-user connections.
This is presently done to a limited extent but should be expanded. Initially,

this could be implemented without changes to the existing network.

> 2) Load-sharing/balancing. ergo: nearest server routing. Basically a
> hierarchy to distribute outbound traffic. These server should learn
> something from an IP routing protocol whereas they only send data to
> "registered neighbors" who have connectivity via a qualified path to the
> source and/or destination station. This WILL reduce load network wide.

IMO, this would be appropriate to consider for the next generation of network.

SNIP

Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:26:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA25306
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:26:49 -0600 (CST)
Message-Id: <LYR11589-133869-2001.02.08-07.40.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: list
Date: Thu, 08 Feb 2001 08:26:37 -0500
From: John Ackermann <jra@febo.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102081326.IAA23790@meow.febo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The aprsspec list is a perfectly appropriate place for this discussion,
at least at this stage of the game. You're welcome to keep using it.

73,
John N8UR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 07:27:21 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA25319
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 07:27:13 -0600 (CST)
Message-Id: <LYR11589-133870-2001.02.08-07.41.09--
lyris.aprsspec@tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:26:54 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <200102081326.FAA02599@harrier.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 2/7/01 7:44 PM Kevin Brown (kbrown@powerhouseproductions.com) wrote:

>1) No client connections.

Doesn't that defeat the whole purpose of setting the system up?

>2) Load-sharing/balancing. ergo: nearest server routing. Basically a
>hierarchy to distribute outbound traffic. These server should learn
>something from an IP routing protocol whereas they only send data to
>"registered neighbors" who have connectivity via a qualified path to the
>source and/or destination station. This WILL reduce load network wide.

Let me explain again about the network load. Two servers on T1 lines were close to maxing out. Now there are three on much fatter pipes. To say that the load could grow six time present without strain is being conservative. Will there be a six-fold increase? Maybe someday, but it is years and years away. Sure, we could put in 1000 servers now, and cover the day when every human on the planet will be on APRS, but that seems a bit of overkill. It took more than 4 years for the system to outgrow the original 2 servers on T1, during the most explosive growth of APRS (which has tapered off significantly), I expect the three server system to continue for a similar period of time. I think looking 4 years down the

pike is more than adequate in this case...

>3) Lets NOT forget about the bigger portion of the network: RF similar
>features for dissemination of data between nodes needs to be created.
>

OK, if by this you mean selective routing on TCP, I disagree strongly.
APRS exists on a one-to-many paradigm, the internet is the ultimate
expression of that, with one-to-all. For those that don't want it all,
there is Bill's excellent AFilter and AServer, but most people want to
see everything, the volume is not yet overwhelming even to a modem
connection, people's pipes are getting fatter much faster than the stream
is growing, I really don't see the need...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:28:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA25344
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:28:15 -0600 (CST)
Message-Id: <LYR11589-133871-2001.02.08-07.42.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:27:51 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102081327.FAA26706@scaup.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/7/01 6:15 PM Jeff King (jeff@aerodata.net) wrote:

>Agree. While I'd question to infinity, 3 clearly is too small of a number,
>even for just the U.S. let alone the world.

On what basis do you claim that three is "to small a number"?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:40:45 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA26034
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:40:42 -0600 (CST)
Message-Id: <LYR11589-133875-2001.02.08-07.54.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:40:22 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102081340.FAA00221@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/7/01 6:19 PM Bill Vodall (wa7nwp@yahoo.com) wrote:

>If each hub connected to two or three other hub's, everybody
>would get everything. Why should all the hubs have to connect
>to all the other hubs? Make it a true mesh network. It would be
>possible for areas to "break off". That would have to be considered.
>

That's exactly the reason it is best to have all the servers conenct to each other. Otherwise it is necessary to develop some way of making sure each packet is completely distributed within the network.

If you have some other arrangement, then a physical loop is possible. In this case, you must now develop an alternative method of preventing looping. You become dependent of every programmer developing code that exactly matches the protocol. An error could bring down the entire

network. I think the present arrangement is better, where it is not physically possible to create a loop (except by misconfiguration, and again I'd like to see that prevented by aprsd the way it is by APRServe).

>> Well, discouraged is a relative term. Port 23 is almost always
>> open
>

>> What is the harm in this that it should be discouraged?
>

>No real harm beyond the fact that it makes the hubs non-standard.

>Does hub 2 also support 10151 in parallel with 23? The more

>consistency there is between systems, the better!

>

No, APRServe (and first.aprs.net for that matter) do not support the dual ports.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:46:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA26453
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:46:05 -0600 (CST)
Message-Id: <LYR11589-133876-2001.02.08-07.59.59--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:45:48 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102081345.FAA13586@albatross.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/8/01 7:45 AM Bill Diaz (billdiaz@megsinet.net) wrote:

>> 3 centralized servers (or some other magic number) could very well be
>> appropriate with some caveats.
>
>> 1) No client connections.
>
>Regional servers or hubs could be employed to provide end-user connections.
>This is presently done to a limited extent but should be expanded.
>Initially,
>this could be implemented without changes to the existing network.
>
Regional is a difficult term to identify on the internet. From
www.findu.com to www.aprs.net is 3 physical miles, but 14 hops (through
Chicago and Dallas) on the internet. second.aprs.net is only 10 hops from
findu, but the path is direct (and the ping time shorter). This is hardly
a unique situation...

For people that do not want the full internet feed there is AFilter and
AServe. However, I think that things do not warrant creating a complex
network with more layers than is necessary. A single group of central
servers is more than capable of supplying the present load, now and in
the foreseeable future. KISS!!!!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 07:53:28 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA26623
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 07:53:20 -0600 (CST)
Message-Id: <LYR11589-133879-2001.02.08-08.07.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:53:04 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <200102081353.FAA08312@harrier.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 2/8/01 1:59 AM Jon Anhold (jon@snoopy.net) wrote:

>Using port 23 is, in my opinion, a horrible idea. The only reason it's
>running on third.aprs.net is so I'm conforming with first & second, and
>even then it's a redir to 10152. There's no way I'm going to allow aprsd to
>run as root just so it can bind to a privileged port we shouldn't be using
>in the first place.

>

First, I only asked the new first to move to port 23, because that is where it has been on APRServe almost since the beginning, changing it would have meant a lot of changes to user config files. I'm glad you did this, it makes it less confusing, but it was not required. The central servers have had different port arrangements for the last year or so, since I moved www.aprs.net to linux.

Second, please explain what is so horrible. True, it's not "pure", but how would you feel if you lived behind a restrictive firewall and this was your only way to get the APRS feed? I have to deal with this at work, the hospital blocks all non-standard ports, but it allows 23. I know I'm not the only one (I wasn't facing this at work when I moved the port to 23, this was done for other firewalled users). It's not ideal, but as you've shown, you needn't run as root to access the port, though most people do run aprsd as a daemon...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 08:15:47 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA27555
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 08:15:44 -0600 (CST)
Message-ID: <LYR11589-133884-2001.02.08-08.29.35--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <billldiaz@megsinet.net>
Reply-To: "billldiaz@megsinet.net" <billldiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: list
Date: Thu, 8 Feb 2001 07:48:47 -0600
MIME-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01C091A7.3CE6D2A0.billldiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

John,

Ok, thank you for your support. TAPR provides many needed services to the digital community, and these lists are much appreciated.

Bill KC9XG

On Thursday, February 08, 2001 7:27 AM, John Ackermann [SMTP:jra@febo.com] wrote:

> The aprsspec list is a perfectly appropriate place for this discussion,
> at least at this stage of the game. You're welcome to keep using it.
>
> 73,
> John N8UR
> jra@febo.com -- n8ur@tappr.org
>
> ---
> You are currently subscribed to aprsspec as: billldiaz@megsinet.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Feb 8 08:16:12 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA27567
for <lyris.aprsspec@tappr.org>; Thu, 8 Feb 2001 08:16:04 -0600 (CST)
Message-ID: <LYR11589-133885-2001.02.08-08.29.48--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <billldiaz@megsinet.net>
Reply-To: "billldiaz@megsinet.net" <billldiaz@megsinet.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Date: Thu, 8 Feb 2001 08:14:01 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C091A7.3E1C9380.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve,

On Thursday, February 08, 2001 7:27 AM, Steve Dimse [SMTP:k4hg@tapr.org] wrote:
> On 2/7/01 7:44 PM Kevin Brown (kbrown@powerhouseproductions.com) wrote:

> >1) No client connections.

>

> Doesn't that defeat the whole purpose of setting the system up?

>

> >2) Load-sharing/balancing. ergo: nearest server routing. Basically a
SNIP

> Let me explain again about the network load. Two servers on T1 lines were
> close to maxing out. Now there are three on much fatter pipes. To say
> that the load could grow six time present without strain is being
> conservative.

SNIP

> >3) Lets NOT forget about the bigger portion of the network: RF similar
> >features for dissemination of data between nodes needs to be created.

> OK, if by this you mean selective routing on TCP, I disagree strongly.
> APRS exists on a one-to-many paradigm, the internet is the ultimate
> expression of that, with one-to-all. For those that don't want it all,
> there is Bill's excellent AFilter and AServer, but most people want to
> see everything, the volume is not yet overwhelming even to a modem
> connection, people's pipes are getting fatter much faster than the stream
> is growing, I really don't see the need...

Many AFilter users run the distance filters almost wide open. Others use it to
limit the feed to provide regional data only. This can be particularly
important in countries that charge Internet fees based on the volume of data
downloaded.

Regional hubs that connect to the APRS core servers could be configured to provide APRS data feeds tailored to users needs. This could include GeoFiltered data, weather only, etc. Regional hubs could provide limited or expanded services without placing additional burdens on the core servers.

Selective routing could be implemented at a regional hub if desired. There would be no need to provide this capability in the core servers. IMO, they should be dedicated to providing a reliable and consistent feed.

Bill KC9XG
> Steve K4HG
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 08:42:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA28822
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 08:42:18 -0600 (CST)
From: "Paul Manning" <PMANNING@flint.umich.edu>
Organization: The University of Michigan - Flint
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Thu, 8 Feb 2001 09:41:36 EDT
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Priority: normal
Message-ID: <LYR11589-133896-2001.02.08-08.56.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3F1974A504A@flint.umich.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>>Date sent: Wed, 7 Feb 2001 15:29:20 -0700 (MST)
>>From: Joel Maslak <jmaslak@antelope.net>
>>To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
>>Subject: [aprsspec] Re: APRServe WG preliminary discussions.

>>
>>I know people probably won't like these suggestions. They involve

>>updating software, using newer computers (I.E. less than 5 years old) as
>>key network nodes, and improving the network. That said, I'm going to
>>suggest it anyhow. ;)
>>
>>I believe the concept that "everyone needs all the traffic" is not
>>beneficial for APRS - or any other high volume linking
>>network. Hopefully, the technology we develop here can be used on the
>>radio waves as well as the internet!

Hello to the list,

A couple questions:

Could there be different streams? A National stream and Regional streams?

Could the basic Time,Date,Call sign info could be used for filtering?

Would IGates be able to filter messages so that dups are cut down to maybe twice?

Could the GHz portion of the Amateur Radio spectrum be used for IGATE radio traffic, cutting down the APRS 2meter traffic??

Is or could the National traffic,in text form,be posted to a web site for downloading??

(I hope my questions have not been too far off track for the group.)

Paul
N8VXD

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 08:43:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA28895
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 08:43:49 -0600 (CST)
Message-ID: <LYR11589-133898-2001.02.08-08.57.43--
lyris.aprsspec@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: [aprssig] Re: Wx Programs and APRS
Date: Thu, 8 Feb 2001 09:44:42 -0500
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B90B183D1@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Roger and Group

I'm going to ask that the group accept a request that "internationalization" be one of the (many) issues foremost on our collective minds... as this and future "SPEC" efforts go forward....

I for one am a bit ashamed that the US is in the same group with Brunei and Yemen as the holdouts in Metric and similar standards (day/month/yr being one of those other "international" standards)...

I have certainly turned off some in the US with my comments about keeping a world perspective in mind... not just US... and it's not been my intention,
but at the same time... we really ought to make at least a token effort...

ALOHA
AH6LS

> -----Original Message-----
> From: Roger Barker [SMTP:roger@peaksys.co.uk]
> [snip]
> The specified format is e.g Feb 08 2001 01:02 - all fields padded with
> '0's and the date in an unambiguous format. (02/07/01 means "July 2nd

> 2001" in much of the world outside the USA.)
> Roger Barker, G4IDE - roger@peaksys.co.uk
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 09:18:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03134
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 09:18:27 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 8 Feb 2001 10:18:00 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: list
In-Reply-To: <LYR11586-133845-2001.02.08-04.16.13--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-133904-2001.02.08-09.32.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10102081017040.16723-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 8 Feb 2001, Roger Barker wrote:

> Well, I thought the discussion was about a proposed specification for
> the APRS internet server network, which I would class as an APRS
> specification. But perhaps this list was only supposed to be for THE
> APRS spec?

This seems like the perfect place to me too.. too many lists dilutes the
effort..
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 11:01:55 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA11178
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 11:01:54 -0600 (CST)
Date: Thu, 8 Feb 2001 12:01:43 -0500
From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
Message-ID: <LYR11589-133930-2001.02.08-11.15.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: jon@snoopy.net
References: <200102081353.FAA08312@harrier.prod.itd.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
In-Reply-To: <200102081353.FAA08312@harrier.prod.itd.earthlink.net>; from
k4hg@tapr.org on Thu, Feb 08, 2001 at 08:53:04AM -0500
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20010208120142.Z4903@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Previously, Steve Dimse (k4hg@tapr.org) wrote:

> On 2/8/01 1:59 AM Jon Anhold (jon@snoopy.net) wrote:

>

> >Using port 23 is, in my opinion, a horrible idea. The only reason it's
> >running on third.aprs.net is so I'm conforming with first & second, and
> >even then it's a redir to 10152. There's no way I'm going to allow aprsd to
> >run as root just so it can bind to a privileged port we shouldn't be using
> >in the first place.

> >

> First, I only asked the new first to move to port 23, because that is
> where it has been on APRServe almost since the beginning, changing it

> would have meant a lot of changes to user config files. I'm glad you did
> this, it makes it less confusing, but it was not required. The central
> servers have had different port arrangements for the last year or so,
> since I moved www.aprs.net to linux.

I know, I'm just voicing my opinion. :)

> Second, please explain what is so horrible. True, it's not "pure", but
> how would you feel if you lived behind a restrictive firewall and this
> was your only way to get the APRS feed? I have to deal with this at work,
> the hospital blocks all non-standard ports, but it allows 23. I know I'm
> not the only one (I wasn't facing this at work when I moved the port to
> 23, this was done for other firewalled users). It's not ideal, but as
> you've shown, you needn't run as root to access the port, though most
> people do run aprsd as a daemon...

I'm running it as a daemon, it just doesn't run as root. The fact that I
found a solution to avoid running it as root makes it less painful, but
it still bothers me somewhat. I guess I'm all for purity. :)

-j

--

>From now on, I will try not to reason with the idiots I encounter.
I will dismiss them by waving my paw and saying 'Bah'

- Dogbert

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 14:54:20 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA00332
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 14:54:20 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-133985-2001.02.08-15.08.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 08 Feb 2001 15:52:59 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: list
References: <LYR22299-133869-2001.02.08-07.40.48--
jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A83072B.D0CA2F79@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Great John. Glad to see the TAPR support. One thing I would like to see, if possible, is a "work area" so we can drop files for everyone to look at. I've got a bunch of notes and files I'd like to drop in it. Is there a APRSSPEC ftp file area? This is raw unpolished stuff.... just work files.

Thanks

Jeff

John Ackermann wrote:

>

> The aprsspec list is a perfectly appropriate place for this discussion,
> at least at this stage of the game.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 15:30:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03805
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 15:30:57 -0600 (CST)
Errors-To: <jeff#aerodata.net>
Message-ID: <LYR11589-133987-2001.02.08-15.44.58--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 08 Feb 2001 16:29:43 -0500
From: Jeff King <jeff#aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.
References: <200102081327.FAA26706@scaup.prod.itd.earthlink.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A830FC7.82254126@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse wrote:

> On 2/7/01 6:15 PM Jeff King (jeff@aerodata.net) wrote:

> >Agree. While I'd question to infinity, 3 clearly is to small of a number,
> >even for just the U.S. let alone the world.

> On what basis do you claim that three is "to small a number"?

I was agreeing with someone else. Also understand the message I was replying to, and you apparently are making "mine", contained some FUTURE thoughts. I think this is great, but we do need to get down on paper what exists now. I think this should be our FOCUS and not getting into these holy war tangents.

That much being said, here is my spin on it. Understand that there may be a difference between regional servers and master servers.

1. The internet is not a homogeneous network.... it is not a big fat ethernet pipe. It has choke points around the world and the country. While I know some of you have all you can eat internet feeds, it is not that way around the whole world nor realistic for the whole of the U.S. Further, we need to be good internet citizens. Having 100's of client connections going across a less then optimal (in some case) internet backbones is not the way to do it, if at all possible. You put the servers in the same internet cloud as the clients, if at all possible. Even if NOTHING changed today, IMHO, the present server network should be set up this way. It is just a no-brainer. I understand the Canadians have actually done something like this already.

2. It would be wise, but not required, to model the typical regional server on ~128K feeds (ISDN) as not to many folks have a T1 in their back pocket. Understandably, this will reduce the number of client side connections each can support, but with a greater number of servers to chose from, this may not be an issue.

3. The poster whose message you made mine was referring to "mesh networks". He I believe was thinking of the NOS ConversD network, which is quite similar in basic function to the APRServe network, proceeding it by some years. However it's internal architecture is quite different... it was designed from the ground up to be able to run on lesser connections then are required for AprsServe. As it is somewhat decentralized, failure at a node point is not catastrophie. It also has limited abilities to actually route around bad nodes. Not entirely error proof, but one can typically safely go away for the weekend to the second home without to much risk. But I am aware this is not how AprsServe is set up today.

I can go on with other reasons, but don't want to get to far off topic. Your might considering querying the person that originally posted the message.

For now, I'd suggest we do the following:

1. Get down on paper what we have now.
2. Look for errors and omissions.... serious problems that need to be fixed or improvements suggested.
3. And then we can talk about some extensions.

Sound like a plan?

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 16:03:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA05769
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 16:03:49 -0600 (CST)
Message-Id: <LYR11589-133995-2001.02.08-16.17.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRServe WG preliminary discussions.

Date: Thu, 8 Feb 2001 17:03:25 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200102082203.0AA09637@hawk.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 2/8/01 4:29 PM Jeff King (jeff@aerodata.net) wrote:

>> >Agree. While I'd question to infinity, 3 clearly is to small of a number,
>> >even for just the U.S. let alone the world.

>

>> On what basis do you claim that three is "to small a number"?

>

>I was agreeing with someone else. Also understand the message I was
>replying to, and you apparently are making "mine", contained some
>FUTURE thoughts.

The thought "3 clearly is to small of a number" seems very much to be
your opinion, but regardless, my comment was directed at the opinion, not
at you personally. I asked you to explain why you felt that way.

>I think this is great, but we do need to get down
>on paper what exists now. I think this should be our FOCUS and
>not getting into these holy war tangents.

>

If you felt that, then why the rest of the message????

>That much being said, here is my spin on it. Understand that there may
>be a difference between regional servers and master servers.

>

>1. The internet is not a homogeneous network.... it is not a big fat
>ethernet pipe. It has choke points around the world and the country.
>While I know some of you have all you can eat internet feeds, it is
>not that way around the whole world nor realistic for the whole of the
>U.S. Further, we need to be good internet citizens. Having 100's of
>client connections going across a less then optimal (in some case)
>internet backbones is not the way to do it, if at all possible. You
>put the servers in the same internet cloud as the clients, if at all
>possible. Even if NOTHING changed today, IMHO, the present server

>network should be set up this way. It is just a no-brainer. I understand
>the Canadians have actually done something like this already.

>

The concept of regional is meaningless in the present internet topology.
As I explained, the path between my two servers is longer than between
findu and socat. Even if people in Miami were to use one of my servers,
many of them would still have their packets blasted at least through
Atlanta, if not much further away.

I would love to have made a European, Canadian, or Australian server
third.aprs.net, but none volunteered. That they are all US is not
US-centrism, but rather the result of no volunteers elsewhere.

>2. It would be wise, but not required, to model the typical
>regional server on ~128K feeds (ISDN) as not to many folks have a
>T1 in their back pocket. Understandably, this will reduce the number
>of client side connections each can support, but with a greater number
>of servers to choose from, this may not be an issue.

>

This is very much unrealistic. ISDN is 64 or 128 k bits/sec, roughly 8
feeds. If a server interlinked with three others, it could only handle 5
users. A minimum of 50 servers would have to be linked, an administrative
nightmare.

>1. Get down on paper what we have now.

>2. Look for errors and omissions.... serious problems that need to be
>fixed or improvements suggested.

>3. And then we can talk about some extensions.

I have no problems with this.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 18:02:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA22031
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 18:02:00 -0600 (CST)
Date: Thu, 8 Feb 2001 19:01:41 -0500
From: Jon Anhold <jon@snoopy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: list

Message-ID: <LYR11589-134005-2001.02.08-18.15.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: jon@snoopy.net
References: <LYR22299-133869-2001.02.08-07.40.48--
jeff#aerodata.net@lists.tapr.org> <LYR22292-133985-2001.02.08-15.08.19--
jon#snoopy.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2i
In-Reply-To: <LYR22292-133985-2001.02.08-15.08.19--jon#snoopy.net@lists.tapr.org>;
from jeff#aerodata.net on Thu, Feb 08, 2001 at 03:52:59PM -0500
X-No-Archive: yes
X-PGP-Fingerprint: C4 C5 CE 7B 2A F6 2F 61 A1 23 6C 73 3A BC 5B 13
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20010208190141.N20136@snoopy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Previously, Jeff King (jeff#aerodata.net) wrote:

> Great John. Glad to see the TAPR support. One thing I would like to
> see, if possible, is a "work area" so we can drop files for everyone
> to look at. I've got a bunch of notes and files I'd like to drop in it.
> Is there a APRSSPEC ftp file area? This is raw unpolished stuff.... just
> work files.

<http://ohioaprs.net/aprserverwg/>

upload via ftp to ohioaprs.net, login: 'aprserverwg' and your email address
as the password.

-j

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 8 21:07:22 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA10197
for <lyris.aprsspec@tapr.org>; Thu, 8 Feb 2001 21:07:22 -0600 (CST)

Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-134033-2001.02.08-21.21.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 08 Feb 2001 22:05:47 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Files uploaded, was re: list
References: <LYR22299-133869-2001.02.08-07.40.48--
jeff#aerodata.net@lists.tapr.org> <LYR22292-133985-2001.02.08-15.08.19--
jon#snoopy.net@lists.tapr.org> <LYR22299-134005-2001.02.08-18.15.54--
jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3A835E8B.B9BC83FD@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jon Anhold wrote:

> <http://ohioaprs.net/aprserverwg/>

> upload via ftp to ohioaprs.net, login: 'aprserverwg' and your email address
> as the password.

That was quick ;-)

I uploaded the following files to Jon's system (above) and also the
upload directory of APRSSIG on TAPR. The TAPR files will need to be
moved someplace so people can access them. They are as follows:

aprsdDOC.htm (HTML docs for APRSD)
aprsdTCPportfunctions.htm (Port defines for APRSD)
aprsserve_dcc.html (Steve's original paper)
inetmsg.html (APRS messaging)
valid.html (User validation)
validation.c (C source code+ msg, which I should have called password.c)

Nothing new here, just getting it all in one place. Some of this stuff can just be cut and pasted.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 11 20:10:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA26023
for <lyris.aprsspec@tapr.org>; Sun, 11 Feb 2001 20:10:48 -0600 (CST)
Message-ID: <LYR11589-134530-2001.02.11-20.24.50--
lyris.aprsspec@tapr.org>
From: Bill Diaz <billdiaz@megsinet.net>
Reply-To: "billdiaz@megsinet.net" <billdiaz@megsinet.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Internet feed comparison.
Date: Sun, 11 Feb 2001 20:09:39 -0600
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C09466.928D9060.billdiaz@megsinet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Comparison tests were conducted of the data provided by first.aprs.net (aprsd) and second.aprs.net (APRServe) to see if there were any appreciable differences in feed content.

2 separate sessions of AFilter 2.03.7 were used to simultaneously connect to first.aprs.net and second.aprs.net. Each AFilter session used strict error checking. All packets that failed AFilter strict error checking were logged to disk. The test session was conducted from Feb 17, 15:16CST to 16:16CST.

AFilter strict error checks may log certain APRS compliant packets as errors.

Therefore, the files will contain perfectly compliant packets that do not, for various reasons, meet the requirements of the current AFilter sessions. These packets were not included in the detailed error analysis.

AFilter total errors reported. All errors.

	First	Second
	751	468

The error logs were examined to determine if aprsd and APRServe had differing results in the types and quantities of errors reported. Large discrepancies are noted below.

Explanation of errors reported :

Data errors : Packets less than 9 bytes or greater than 399 bytes in length.
Packets that do not contain greater than or colon.

Header char errors : Illegal char in header, improper formatting of header.
Originating call too long.

Header dest errors : Destination call is WIDE, [invalid] or other invalid call type.

Msg Length : Payload of APRS message type > 84 bytes.

Error type	First	Second
Data 72	0	
Header char	27	2
Header dest	70	0
Msg length	253	75
===	===	
Totals	422	77

Further studies will be conducted to confirm or refute the initial results.
Future studies will also examine the links between servers.

The errorlog files are available if anyone is interested in obtaining a copy.

Bill KC9XG

Display current vehicle location :

<http://www.findu.com/cgi-bin/find.cgi?KC9XG-14>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Feb 16 14:25:09 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA29620
for <lyris.aprsspec@tappr.org>; Fri, 16 Feb 2001 14:25:08 -0600 (CST)
Message-ID: <LYR11589-135426-2001.02.16-06.25.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 16 Feb 2001 12:08:22 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] APRS destination address for UI-View
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Z8q1xSA2gRj6EwZ1@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Following the recent discussions about the use of APxxxx destination addresses in the APRSSIG, unless anyone has any serious objections, I intend to use APU1xx for 16 bit UI-View and APU2xx for UI-View32.

In both cases xx will represent the version number multiplied by 100 and then converted to base 36. E.g. version 1.79 would be 4Z.

That leaves lots of APUxxx options available for other applications, should anyone else wish to use them.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Feb 20 03:29:35 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA26807
for <lyris.aprsspec@tappr.org>; Tue, 20 Feb 2001 03:29:34 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Mon, 19 Feb 2001 09:49:08 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] "non binary networks"
Message-ID: <LYR11589-136038-2001.02.19-10.55.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0102190932310.1674-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I was reading the chapter of the spec on implementing the Mic-E data format. I came to the following on the last page of this chapter, page 56:

===

Some parts of the Mic-E AX.25 Information field may contain binary data (i.e. non-printable ASCII characters). If such a packet is constrained to the APRS network, this should not cause any difficulties.

If, however, the packet is to be forwarded via a network that does not reliably preserve binary data (e.g. the Internet), then it is necessary to convert the data to a format that will preserve it.

Further, if the packet subsequently re-emerges back into the APRS network, it will then be necessary to re-convert the data back to its original format.

===

I actually think the current APRS network will have more problems with the Mic-E format than the Internet! As far as I can tell, the only special characters transmitted are ASCII characters 28 and 29 - and then only in Beta Mic-E's.

True, ascii 29 is often a control character for telnet. But, it is only a control character when hit from the keyboard of an interactive session - it can be received just fine.

Ascii 28 poses no problems.

Even though we have APRS servers on port 23, it is an 8 bit clean link, as it doesn't run the telnet protocol (like most port 23s), so there is no

quoting or conversion necessary. There is no operating system that I know of that doesn't implement an 8 bit clean TCP/IP sockets (otherwise, FTP wouldn't work). I've observed MANY control characters on APRSServe, and none seem to crash any of the servers (although some clients crash when they see "unusual" data - but they do this on RF, too).

Converting these MIC-E messages is a nice thought, but unless a conversion method is specified, it won't work. Too many people will convert them too many ways (sound familiar?).

So, here's a proposal for the WG to look at, vote on, whatever:

This paragraph should be changed to "Any network that causes ASCII characters 28 and 29 to be converted may not be suitable for transmission of MIC-E formatted messages. Software should convert these beta MIC-E messages. The conversion procedure is to replace character 28 with "\034" and character 29 with "\035" (the octal equivalents preceded with a backslash). These messages MUST NOT be sent in converted form into APRS Serve or the APRS network. When sending into either of these networks, the software must convert these characters back into ASCII characters 28 and 29 to allow duplicate packet detection.

===

An alternative, if the working group thinks the above will cause too many problems:

The Beta MIC-E format messages are currently deprecated and may not work across some third-party networks. Gateway software should drop, rather than convert, these packets if they can not be sent across the transit network.

===

I would appreciate the WG reporting on what happens to this small proposal. This is NOT a APRSServe proposal, but a proposal to change the actual APRS spec.

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 1 11:50:26 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA28907
for <lyris.aprsspec@tapr.org>; Thu, 1 Mar 2001 11:50:25 -0600 (CST)
Message-ID: <LYR11589-138074-2001.03.01-12.05.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Horzepa, Stan" <Stan_Horzepa@adc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] ADMIN: The Monthly Message
Date: Thu, 1 Mar 2001 11:49:09 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8204E40F8922D411A0C10008C7A42AC2235B5A@MRDNEXCH01>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like "what kind of printer should I buy to print out my copy of the APRS specification?") may be considered off-topic. If you start a message with "this is off-topic..." then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 5 19:23:55 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA29867
for <lyris.aprsspec@tapr.org>; Mon, 5 Mar 2001 19:23:54 -0600 (CST)
Message-Id: <LYR11589-139002-2001.03.05-19.39.00--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: jjeffers@deskmedia.com
Date: Mon, 05 Mar 2001 19:24:12 -0600
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: James Jefferson <jjeffers@deskmedia.com>
Subject: [aprsspec] first.aprs.net ... second.aprs.net ... third.aprs.net

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4.2.0.58.20010305192010.00a7f360@deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Can someone please explain the differences between the different numbered APRS servers. I notice a different data stream is coming from each one.

-James Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 5 23:41:29 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA21218
for <lyris.aprsspec@tappr.org>; Mon, 5 Mar 2001 23:41:28 -0600 (CST)
Message-Id: <LYR11589-139030-2001.03.05-23.56.33--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: first.aprs.net ... second.aprs.net ... third.aprs.net
Date: Tue, 6 Mar 2001 00:41:15 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200103060541.VAA06554@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 3/5/01 8:24 PM James Jefferson (jjeffers@deskmedia.com) wrote:

>Can someone please explain the differences between the different numbered
>APRS servers. I notice a different data stream is coming from each one.

>

The differences have been explained several times, consult the archives of this list and aprssig for details of the differences. In brief, the two servers run different programs. They differ in filtering capabilities, but in terms of viable data, they should all have the same data, though the ordering will be different.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 14 10:37:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA16928
for <lyris.aprsspec@tapr.org>; Wed, 14 Mar 2001 10:37:08 -0600 (CST)
Message-ID: <LYR11589-366-2001.03.14-10.52.38--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "ANDY VE7FTR" <ve7ftr@home.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] kam & pk-88 tnc's
Date: Wed, 14 Mar 2001 08:40:28 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00c701c0aca5\$7a6b2f40\$d5e44318@k1vn1.bc.wave.home.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

hi

would anybody know the aprs settings [vhf] for the KAM [6.0 ver] ALL
MODE TNC ? and also the PK-88 aprs settings ?

i'm using WINAPRS.

thanks

73.

andy VE7FTR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 14 12:09:27 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA26432
for <lyris.aprsspec@tapr.org>; Wed, 14 Mar 2001 12:09:22 -0600 (CST)
Date: Wed, 14 Mar 2001 10:09:15 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: kam & pk-88 tnc's
In-Reply-To: <LYR12892-366-2001.03.14-10.52.38--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-390-2001.03.14-12.24.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10103141006140.17898-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 14 Mar 2001, ANDY VE7FTR wrote:

> would anybody know the aprs settings [vhf] for the KAM [6.0 ver] ALL
> MODE TNC ? and also the PK-88 aprs settings ?
> i'm using WINAPRS.

I'm not a WinAPRS user (you should know that from my .sig), but I
have run PK-88's on APRS a bunch.

Whatever you do, make sure that "mfilter" is disabled on it,
otherwise some of the non-printable MIC-E format characters will
end up getting filtered at the TNC and never making it to your
computer.

I think "mfilter 0" is what kills the filtering (tells it to filter

> hi
> would anybody know the aprs settings [vhf] for the KAM [6.0 ver] ALL
> MODE TNC ? and also the PK-88 aprs settings ?
> i'm using WINAPRS.
> thanks
> 73.
> andy VE7FTR
>
>
> ---

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 20 11:44:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26423
for <lyris.aprsspec@tapr.org>; Tue, 20 Mar 2001 11:44:25 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-1674-2001.03.20-12.00.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 20 Mar 2001 12:41:21 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Remote I-Gate control, was: I'm STILL in China
References: <LYR18229-1667-2001.03.20-11.42.52--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AB79641.4C8BCC6D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff Brenton wrote:

> AND the

> gates in the area are operating properly (we have 3 in the area).
>
> But, being 20 miles from an IGate doesn't mean you're guaranteed to be on
> FINDU. One of the gates in our area has a bad receiver, and has PASSALL
> turned on, so all the garbage gets passed into internet.

And then...

WA8LMF1@aol.com wrote:

> Your D700's compressed Mic-E-format packets are being trashed by an Internet
> gateway station running an out-of-date version of WinAPRS (2.4.6) that has a
> known bug that does this (what I call the "hyper-jump" problem). This
> problem crops up on this list about once every three months.
>
> Again..... YOU MUST NOT IGATE WITH WinAPRS 2.4.6 !!!!!!!

Just thinking it might be handy to have some internet remote control of the
stations that
are gating.... basically a remote control that allows you to disable gating if the
station
is out of control and/or out of spec. Filtering only treats the symptom of these
problems,
and in fact cannot address all of them.

This would need to be written into the GUI's and applications that function as a
gateway.
Someone trusted would need to hold the passcodes.

Just thinking out loud how I might address the above problem if I was in a
position to
do anything about it. Feel free to file this in the round folder.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 20 11:51:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27739
for <lyris.aprsspec@tapr.org>; Tue, 20 Mar 2001 11:51:47 -0600 (CST)
Date: Tue, 20 Mar 2001 11:51:34 -0600

Message-Id: <LYR11589-1676-2001.03.20-12.07.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Remote I-Gate control, was: I'm STILL in China
X-IPAddress: 63.237.116.178
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200103201751.LAA13304@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

It's not hard to do Jeff ... just don't allow them to connect to the server they are flooding / feeding with inappropriate data. That way everything can be in APRSd, instead of upgrading lots of WinAPRS (and still having the buggy WinAprs 2.4.6 out there) ... it would be almost trivial to have the daemon check the IP of the box requesting a connection before forking a new process.

-Jim Jefferson

> Jeff Brenton wrote:
>
> > AND the
> > gates in the area are operating properly (we have 3 in the area).
> >
> > But, being 20 miles from an IGate doesn't mean you're guaranteed to be on
> > FINDU. One of the gates in our area has a bad receiver, and has
PASSALL
> > turned on, so all the garbage gets passed into internet.
>
> And then...
>
>
> WA8LMF1@aol.com wrote:
>
> > Your D700's compressed Mic-E-format packets are being trashed by an Internet
> > gateway station running an out-of-date version of WinAPRS (2.4.6) that has a
> > known bug that does this (what I call the "hyper-jump" problem).
This

> > problem crops up on this list about once every three months.
> >
> > Again..... YOU MUST NOT IGATE WITH WinAPRS 2.4.6 !!!!!!!
>
>
> Just thinking it might be handy to have some internet remote control
of the stations that
> are gating.... basically a remote control that allows you to disable
gating if the station
> is out of control and/or out of spec. Filtering only treats the
symptom of these problems,
> and in fact cannot address all of them.
>
> This would need to be written into the GUI's and applications that
function as a gateway.
> Someone trusted would need to hold the passcodes.
>
> Just thinking out loud how I might address the above problem if I was
in a position to
> do anything about it. Feel free to file this in the round folder.
>
> -Jeff
>
> ---
> You are currently subscribed to aprsspec as: jjeffers@deskmedia.com
> To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator:
wallou@tapr.org
>
>
>
>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 23 16:07:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA09604
for <lyris.aprsspec@tapr.org>; Fri, 23 Mar 2001 16:07:49 -0600 (CST)

Message-Id: <LYR11589-2541-2001.03.23-16.23.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 23 Mar 2001 16:08:46 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Compliance
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sabb7523.006@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA09604

It occurred to me today that testing for APRS compliance would be easier if a "test" file was available. If it were accompanied by a check list, the APRS author could verify the results produced by his software to determine conformance to the spec. You couldn't verify all aspects of the software this way, but it would be a great start.

Rich Beckwith - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 24 08:41:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA01073
for <lyris.aprsspec@tapr.org>; Sat, 24 Mar 2001 08:41:29 -0600 (CST)
From: Rolf Bleher <mail@Rolf-Bleher.de>
Reply-To: mail@Rolf-Bleher.de
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Message format of Kenwood radios
Date: Sat, 24 Mar 2001 13:57:03 +0100
Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-2622-2001.03.24-08.57.23--
lyris.aprsspec#tapr.org@lists.tapr.org>

Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01032414034501.00791@terra>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello,

I'm currently programming for the XASTIR APRS software and came along some unknown formats received from Kenwood TM-D700 radios.

They seem to use '~' for messages and acknowledges, the message end character too is not '{' but '~' and there is a binary instead of 'ack'.

The data type '~' is defined "Do not use - TNC stream switch" in the current version of the PARS Reference document.

Is this problem known? Is everyone implementing his own rules and tells us he is APRS compliant? Should I implement messages this way?

Thanks and 73s
de Rolf

--

Rolf Bleher	DK7IN	/	-----
N52d32.660'	E013d20.920'	/	Linux - life is too short for reboots
			http://www.dk7in.de
			Rolf@dk7in.de

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 24 08:49:49 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA01665
for <lyris.aprsspec@tappr.org>; Sat, 24 Mar 2001 08:49:45 -0600 (CST)
Message-ID: <LYR11589-2623-2001.03.24-09.05.39--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 24 Mar 2001 14:48:51 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Message format of Kenwood radios
References: <LYR13460-2622-2001.03.24-08.57.23--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-2622-2001.03.24-08.57.23--roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <w2\$fvjLATPLv6Ew80@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-2622-2001.03.24-08.57.23--roger#peaksys.co.uk@lists.tapr.org>, Rolf Bleher <mail@Rolf-Bleher.de> writes

>Hello,
>
>I'm currently programming for the XASTIR APRS software and came
>along some unknown formats received from Kenwood TM-D700 radios.
>
>They seem to use '~' for messages and acknowledges, the message end
>character too is not '{' but '~' and there is a binary instead of
>'ack'.

They're UI-View format messages. They're not coming from Kenwood radios.
(I wonder why you think they are?) They have to relevance to the APRS
specification.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 24 09:28:59 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03936
for <lyris.aprsspec@tapr.org>; Sat, 24 Mar 2001 09:28:55 -0600 (CST)
Message-ID: <LYR11589-2627-2001.03.24-09.44.51--lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Sat, 24 Mar 2001 15:28:10 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Message format of Kenwood radios
References: <LYR13460-2622-2001.03.24-08.57.23--roger#peaksys.co.uk@lists.tappr.org>
<LYR13460-2623-2001.03.24-09.05.39--roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-2623-2001.03.24-09.05.39--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <NmpQHSAK0Lv6EwaE@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-2623-2001.03.24-09.05.39--roger#peaksys.co.uk@lists.tappr.org>, Roger Barker <roger@peaksys.co.uk> writes
[snip]

>
>They're UI-View format messages. They're not coming from Kenwood radios.
>(I wonder why you think they are?) They have to relevance to the APRS
Typo, should be "no" ^^
>specification.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Mar 25 06:01:42 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA11332
for <lyris.aprsspec@tappr.org>; Sun, 25 Mar 2001 06:01:41 -0600 (CST)
From: Rolf Bleher <mail@Rolf-Bleher.de>
Reply-To: mail@Rolf-Bleher.de
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] UI-View messages, was: Message format of Kenwood radios
Date: Sun, 25 Mar 2001 13:16:54 +0200

Content-Type: text/plain
MIME-Version: 1.0
Message-Id: <LYR11589-2729-2001.03.25-06.17.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01032513330401.00742@terra>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello,

> They're UI-View format messages. They're not coming from Kenwood radios.
> (I wonder why you think they are?) They have no relevance to the APRS
> specification.

Thank you Roger for pointing me to that, I thought those guys are
using TM-D700. But it could be, that they use their Kenwood
transceivers only in the car and use UI-View at home.

I now ignore that data frames. Should I do something useful with it
or is it only used for communication between two UI-View stations?

73 de Rolf

--

```

Rolf Bleher      DK7IN      /-----
N52d32.660' E013d20.920' / Linux - life is too short for reboots
-----/                  http://www.dk7in.de
                             Rolf@dk7in.de
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 25 06:25:49 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA12229
for <lyris.aprsspec@tapr.org>; Sun, 25 Mar 2001 06:25:43 -0600 (CST)
Message-ID: <LYR11589-2734-2001.03.25-06.41.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 25 Mar 2001 13:24:18 +0100

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: UI-View messages, was: Message format of Kenwood radios
References: <LYR13460-2729-2001.03.25-06.17.32--roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-2729-2001.03.25-06.17.32--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <1zn0iVAyNev6Ewsx@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-2729-2001.03.25-06.17.32--roger#peaksys.co.uk@lists.tappr.org>, Rolf Bleher <mail@Rolf-Bleher.de> writes
>Hello,
>
>> They're UI-View format messages. They're not coming from Kenwood radios.
>> (I wonder why you think they are?) They have no relevance to the APRS
>> specification.
>
>Thank you Roger for pointing me to that, I thought those guys are
>using TM-D700. But it could be, that they use their Kenwood
>transceivers only in the car and use UI-View at home.
>
>I now ignore that data frames. Should I do something useful with it
>or is it only used for communication between two UI-View stations?

I would ignore it. I don't think there's any point in supporting it in other software.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 27 11:26:31 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26102
for <lyris.aprsspec@tapr.org>; Tue, 27 Mar 2001 11:26:28 -0600 (CST)
Message-Id: <LYR11589-3119-2001.03.27-11.42.31--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 27 Mar 2001 11:26:18 -0600
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <iss.2fb0.3ac0cd3a.adbcc.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Fri, 23 Mar 2001 16:08:46 -0600
> From: "Rich Beckwith" <Rich@dps.state.mo.us>
> Subject: [aprsspec] APRS Compliance
>
> It occurred to me today that testing for APRS compliance would be easier
> if a "test" file was available. If it were accompanied by a check list,
> the APRS author could verify the results produced by his software to
> determine conformance to the spec. You couldn't verify all aspects of the
> software this way, but it would be a great start.

A few thoughts:

- o First, there needs to be a generally accepted understanding of what "APRS compliance" means. For example, does it mean "this implementation conforms to the APRS specification", or does it mean "this implementation passes a certification test suite that Bob Bruninga talked about creating"? I strongly favor language that differentiates these two concepts, perhaps "compliance" versus "certification".
- o Second, what does it mean to "conform to the APRS specification"? Does an implementation need to correctly receive all formats in the specification, or just some? Does an implementation need to be able to transmit all formats in the specification? Can a tracker ever be "APRS compliant", since it can't send messages?

I believe that it would be useful to create different classes of APRS devices (analogous to what are often called "profiles" in other standards work). That way, a tracker could be "APRS compliant" if it conforms to the tracker profile, without having to have a graphical user interface.

The APRS specification never cleanly separated protocol issues from user interface issues. I believe that this will tend to confuse discussions about "APRS compliance". Is an implementation "APRS compliant" if it conforms to the protocol specification, but not to the commentary in the APRS specification about user interfaces? (Personally, I think it was a mistake to include user interface issues in the APRS protocol specification, largely for this reason.)

- o Third, it would be very useful for a third party (i.e., not the developer of APRS code) to determine APRS compliance. During the development of the APRS specification a number of developers said things of the sort "No, the specification must be wrong, because my code does it differently."
- o Fourth, the development of a good test suite is a very tedious process. Plus, this difficulty is likely to be compounded by complaints from developers whose code fails a particular test. On the other hand, this is part of the maturation process for any protocol specification. The specification is, in some sense, tested every time two parties discuss whether a particular format or sequence conforms to the specification. Perhaps, the result of these discussions is that the specification is incomplete, inconsistent, or vague, and needs to be enhanced.
- o Finally, there is the issue of whether developers particularly care whether their implementation conforms to the APRS specification. I believe that during the development of the APRS protocol specification one or more developers said, more or less, "I don't care what the specification says, this is what my code is going to do." <Insert long, extended debate about advantages of open source implementations here, or not...> <Insert another long extended debate about the importance of interoperability of APRS implementations here...>

A freely available test suite, plus a publicly available compilation of test results would, in my opinion, be a very good thing.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 27 11:39:33 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27865
for <lyris.aprsspec@tappr.org>; Tue, 27 Mar 2001 11:39:27 -0600 (CST)
Message-ID: <LYR11589-3124-2001.03.27-11.55.30--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 27 Mar 2001 18:38:41 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR13460-3119-2001.03.27-11.42.31--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-3119-2001.03.27-11.42.31--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4Q89aXAhANw6EwH7@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-3119-2001.03.27-11.42.31--roger#peaksys.co.uk@lists
.tappr.org>, Timothy J Salo <tjs@tc.umn.edu> writes

[snip]
>o Fourth, the development of a good test suite is a very tedious
> process.
[snip]

And, without a good deal of care, will not be usable to test some
programs, if they do not normally process the typical, simplistic,
monitored data output from a TNC.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 27 16:50:41 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA03664
for <lyris.aprsspec@tapr.org>; Tue, 27 Mar 2001 16:50:39 -0600 (CST)
Message-Id: <LYR11589-3181-2001.03.27-17.06.40--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 27 Mar 2001 16:50:23 -0600
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <iss.1780.3ac1192f.335f7.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Timothy J Salo <tjs@tc.umn.edu> writes:
> >o Fourth, the development of a good test suite is a very tedious
> > process.
>
> And, without a good deal of care, will not be usable to test some
> programs, if they do not normally process the typical, simplistic,
> monitored data output from a TNC.

The TNC/PC interface is, from the perspective of the APRS protocol specification, an interface internal to an APRS station. The APRS protocol specification should make no reference to this [internal and optional] interface (although I haven't reviewed the spec with this topic in mind).

I believe that it is far more appropriate for an APRS protocol test suite to be expressed as raw AX.25 frames (which reflect the objective of the protocol specification, namely to specify correct on-the-air formats and protocols).

Of course, this leaves the challenges of representing on-the-air AX.25 packets (I believe that the TAPR TNC2 THN/Host interface is a poor choice) and getting the test packets into an APRS implementation (if I had time, I would try wiring two 1200 bps TNCs or modems back to back to see if they would transfer packets).

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 27 21:18:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA22109
for <lyris.aprsspec@tapr.org>; Tue, 27 Mar 2001 21:18:38 -0600 (CST)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: APRS/Beacon Net differences
Date: Tue, 27 Mar 2001 19:18:00 -0800
Message-ID: <LYR11589-3207-2001.03.27-21.34.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJMELMCPAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev W2EV wrote to APRSSIG:

<snip>

> Again...(I keep saying this over and over) this is not to say that
> BEACONet is better than APRS...it's just different...but not so
> different as to keep APRSdos and UI-View users from participating if
> they so choose.

>

> Regards,

> Ev, W2EV

Even WinAPRS (still the most popular software) and the Kenwood radio operators could participate if you changed your "BEACONet Protocol" just a little bit. That could greatly increase BEACONet's acceptance, Ev, and I believe it would be well worth the effort.

You write at

<http://www.rochesterny.org/beaconet/information/BEACONet%20Protocol.txt> :

BEACONet(tm) To-Call Field Parsing (vers. Alpha.08):

A Destination-call or To-Call of CQ or BEACON may be used. When done so, it should be understood as a valid BEACONet frame, with station information "undisclosed".

Otherwise, the embedded information in the To-Call takes the format of BSNPAH-D where:

B = Band from Table 1
S = Sub-band from Table 1
N = Network Function. See Table 7 and associated notes.
P = Power Output (not ERP) from Table 2
A = Antenna Influence from Table 3
H = Height Above Average Terrain from Table 4
D = Directivity from Table 5
<snip>

The 3 Bytes that cause your proposed incompatibility with some software and the Kenwood radios are the first two characters of the AX.25 Destination Address (which your protocol uses for "transmit frequency" info, "B" and "S"), and the SSID which you use for "Antenna Directivity" ("D").

All except B, S, and N can be relayed with the use of PHG (which even WinAPRS understands) as in other AP* flavors.
What about the idea of keeping your B, S, and N in there using something like
APbsn
and using PHG for the other info.
Maybe even throw another letter in there after the AP to specifically designate BEACONet. Looks like B is still available. Then it would be APBbsn

This small change would eliminate all incompatibility with ALL the flavors of software AND the Kenwood radios.

Since you already state that a "valid BEACONet frame, with station information undisclosed" is allowable, why not make this small compromise to allow so many more people to participate?
73, Cap KE6AFE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 02:16:47 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA13671
for <lyris.aprsspec@tappr.org>; Wed, 28 Mar 2001 02:16:42 -0600 (CST)
Message-ID: <LYR11589-3241-2001.03.28-02.32.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 28 Mar 2001 09:15:27 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR13460-3181-2001.03.27-17.06.40--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR13460-3181-2001.03.27-17.06.40--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <DkDzngAf2Zw6EwCv@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-3181-2001.03.27-17.06.40--roger#peaksys.co.uk@lists
.tappr.org>, Timothy J Salo <tjs@tc.umn.edu> writes
[snip]

>

>I believe that it is far more appropriate for an APRS protocol test suite
>to be expressed as raw AX.25 frames (which reflect the objective of the
>protocol specification, namely to specify correct on-the-air formats and
>protocols).

Yes, I think that's definitely the best approach.

>Of course, this leaves the challenges of representing on-the-air AX.25
>packets (I believe that the TAPR TNC2 THN/Host interface is a poor choice)
>and getting the test packets into an APRS implementation (if I had time,
>I would try wiring two 1200 bps TNCs or modems back to back to see if
>they would transfer packets).

It usually works ok.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 06:04:54 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA00751
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 06:04:49 -0600 (CST)
Message-Id: <LYR11589-3289-2001.03.28-06.20.51--
lyris.aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Wed, 28 Mar 2001 07:04:34 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200103281204.EAA00161@falcon.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/27/01 5:50 PM Timothy J Salo (tjs@tc.umn.edu) wrote:

>The TNC/PC interface is, from the perspective of the APRS protocol
>specification, an interface internal to an APRS station. The APRS protocol
>specification should make no reference to this [internal and optional]
>interface (although I haven't reviewed the spec with this topic in mind).
>

Actually, no. Part of the spec, the "third party format", makes the TNC
text external to the station. Even a hypothetical client program that
only operated in KISS mode is still going to have to have the capability
to parse the TNC text format.

>I believe that it is far more appropriate for an APRS protocol test suite
>to be expressed as raw AX.25 frames (which reflect the objective of the
>protocol specification, namely to specify correct on-the-air formats and
>protocols).
>

To the best of my knowledge, all APRS programs accept the text format of
input. By "raw AX.25 frames" I presume you are proposing a new file
format with just the binary data, correct? TTBOMK, no APRS program
accepts this format. Therefore, in order to use the test suite, each

author must add code to their program, code which is otherwise worthless, and could be another source of errors. Alternatively, someone must write programs to transmit the info on the air (or two TNC's back to back). This would allow people other than the programmers to perform the test, but requires setting up hardware.

If it were a TNC text file, click open and you are testing.

What precisely do you gain by using this format other than being more pure?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 07:02:45 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA03525
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 07:02:43 -0600 (CST)
Message-ID: <LYR11589-3295-2001.03.28-07.18.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 14:02:05 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR13460-3289-2001.03.28-06.20.51--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-3289-2001.03.28-06.20.51--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8D3MuJANDew6Eww6@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-3289-2001.03.28-06.20.51--roger#peaksys.co.uk@lists.tapr.org>, Steve Dimse <k4hg@tapr.org> writes
>On 3/27/01 5:50 PM Timothy J Salo (tjs@tc.umn.edu) wrote:
>
>>The TNC/PC interface is, from the perspective of the APRS protocol
>>specification, an interface internal to an APRS station. The APRS protocol

>>specification should make no reference to this [internal and optional]
>>interface (although I haven't reviewed the spec with this topic in mind).
>>
>Actually, no. Part of the spec, the "third party format", makes the TNC
>text external to the station. Even a hypothetical client program that
>only operated in KISS mode is still going to have to have the capability
>to parse the TNC text format.
[snip]

Programs may be able to parse "TNC text format" embedded in a third party frame, but that may not be the format of the input to the program. The input to the program may be KISS frames, WA8DED host mode frames, etc. You cannot use "TNC text" as the input to a program that is expecting to see KISS frames, on the grounds that somewhere in its processing it can handle that data. To handle "TNC text" as the program input would require compliance testing to be done on a special version of the program with some sort of input "hook" added.

Even if the program uses a TNC in terminal mode, and accepts "TNC text" input, it may choose not to take the "normal" approach of discarding the frame type information before it leaves the TNC. Therefore input like "G4IDE>APRS:Information field goes here" may be discarded.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 07:47:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA05379
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 07:47:15 -0600 (CST)
Message-Id: <LYR11589-3301-2001.03.28-08.03.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Wed, 28 Mar 2001 08:46:54 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200103281346.FAA22345@gull.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/28/01 8:02 AM Roger Barker (roger@peaksys.co.uk) wrote:

>Programs may be able to parse "TNC text format" embedded in a third
>party frame, but that may not be the format of the input to the program.
>The input to the program may be KISS frames, WA8DED host mode frames,
>etc. You cannot use "TNC text" as the input to a program that is
>expecting to see KISS frames, on the grounds that somewhere in its
>processing it can handle that data. To handle "TNC text" as the program
>input would require compliance testing to be done on a special version
>of the program with some sort of input "hook" added.

>

I am aware, and stated, that you cannot feed TNC text into a program that is expecting KISS mode. My statement was that no program accepts input exclusively in these modes, to the best of my knowledge.

Are you saying that UIView does not work with a TNC in text mode? I will admit that my experience with your program is extremely limited, but I'm surprised your users haven't asked for that feature, if for not other reason than to import tracks retrieved with the findu rawposit script.

If your program does accept this input format, do you know of any other program that does not? Even if yours, or another program will not, how hard is it to add that, since you already must process the format in the third party packet?

Compare that effort to that required of every author to support a new file format.

And again, what does the proposed format provide that a TNC text format does not?

>Even if the program uses a TNC in terminal mode, and accepts "TNC text"
>input, it may choose not to take the "normal" approach of discarding the
>frame type information before it leaves the TNC. Therefore input like
>"G4IDE>APRS:Information field goes here" may be discarded.

>

Sorry, I don't follow this, can you elaborate?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 08:24:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA07289
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 08:24:16 -0600 (CST)
Message-ID: <LYR11589-3305-2001.03.28-08.40.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 15:23:12 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR13460-3301-2001.03.28-08.03.16--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-3301-2001.03.28-08.03.16--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <8Swca4AQPfw6EwH1@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-3301-2001.03.28-08.03.16--roger#peaksys.co.uk@lists
.tapr.org>, Steve Dimse <k4hg@tapr.org> writes
[snip]
>

>Are you saying that UIView does not work with a TNC in text mode? I will
>admit that my experience with your program is extremely limited, but I'm
>surprised your users haven't asked for that feature, if for not other
>reason than to import tracks retrieved with the findu rawposit script.

It supports terminal mode, but to accept the simple format I quoted, and
the format you are presumably referring to as "TNC text" -
G4IDE>APRS:Information field goes here
Is an "only use this input format if you really have to" option.

It's not a problem for me, because I'm well capable of putting together
an input converter to read the TNC text, and output it as UI KISS
frames.

However, as development of APRS compatible software outside the USA hopefully increases, this problem is likely to affect other apps. There are parts of the world where the "normal" TNC is, for instance, a TNC2 with WA8DED/TF firmware.

So I'm only expressing an opinion on what I think is a desirable format for test data, not pointing out an insurmountable problem.

[snip]

>Compare that effort to that required of _every_ author to support a new
>file format.

I don't quite see it like that. If someone is going to make the huge effort to produce a "test suite", I would have thought it was better to provide a reference set of KISS frames, that can be very easily converted into any input format the author may require. A binary representation of a frame is a more reliable definition than something that has supposedly come out of a TNC2 with a particular set of parameters configured.

>And again, what does the proposed format provide that a TNC text format
>does not?

See above.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:15:29 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA09958
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:15:27 -0600 (CST)
Message-Id: <LYR11589-3318-2001.03.28-09.31.31--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 09:16:29 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII

Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sac1ac00.071@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id JAA09958

>>Are you saying that UIView does not work with a TNC in text mode? I will
>>admit that my experience with your program is extremely limited, but I'm
>>surprised your users haven't asked for that feature, if for not other
>>reason than to import tracks retrieved with the findu rawposit script.

>It supports terminal mode, but to accept the simple format I quoted, and
>the format you are presumably referring to as "TNC text" -
>G4IDE>APRS:Information field goes here
>Is an "only use this input format if you really have to" option.

Did I miss something? Isn't most of the APRS Spec based on the "simple" terminal
format?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 28 09:20:52 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10427
for <lyris.aprsspec@tappr.org>; Wed, 28 Mar 2001 09:20:47 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Wed, 28 Mar 2001 08:23:09 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR21162-3318-2001.03.28-09.31.31--
jmaslak#antelope.net@lists.tappr.org>
Message-ID: <LYR11589-3321-2001.03.28-09.36.50--
lyris.aprsspec#tappr.org@lists.tappr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0103280822170.20026-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Mar 2001, Rich Beckwith wrote:

> Did I miss something? Isn't most of the APRS Spec based on the
> "simple" terminal format?

Yes - but I think we should also test the program's ability to deal with unusual control characters in the data stream, since it happens in real life (TNCs break, people do compressed mail transfers on 144.39, etc)...

--

Joel

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:26:00 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10677
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:25:54 -0600 (CST)

Mime-Version: 1.0
Message-Id: <LYR11589-3323-2001.03.28-09.41.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 10:17:12 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: APRS Compliance
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <a05010425b6e7af301894@[128.6.238.130]>

<LYR11591-3301-2001.03.28-08.03.16--kb2ici#amsat.org@lists.tapr.org>
<LYR11591-3301-2001.03.28-08.03.16--kb2ici#amsat.org@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

><SMIP>

>If your program does accept this input format, do you know of any other
>program that does not? Even if yours, or another program will not, how
>hard is it to add that, since you already must process the format in the
>third party packet?
>
>Compare that effort to that required of _every_ author to support a new
>file format.
>
>And again, what does the proposed format provide that a TNC text format
>does not?

I agree with Steve, the text mode format is an easy to read text file
that can be parsed by hand and characters counted. If you had a
binary format test suite, it would require special programs to
create, edit, and view the data. Since its purpose would be to test
APRS programs, using an APRS program to view the data would not be
sufficient.

Mark

--

Mark Sproul http://ecs.rutgers.edu | msproul@jove.rutgers.edu
Manager - Engineering Computing Services | 732-445-3121
Eng B-124-C

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:26:22 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10690
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:26:15 -0600 (CST)
Mime-Version: 1.0

Message-Id: <LYR11589-3324-2001.03.28-09.42.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 10:24:42 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: APRS Compliance
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <a05010426b6e7b13491e9@[128.6.238.130]>
<LYR11591-3295-2001.03.28-07.18.46--kb2ici#amsat.org@lists.tapr.org>
<LYR13460-3289-2001.03.28-06.20.51--roger#peaksys.co.uk@lists.tapr.org>
<LYR11591-3295-2001.03.28-07.18.46--kb2ici#amsat.org@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>[snip]
>
>Programs may be able to parse "TNC text format" embedded in a third
>party frame, but that may not be the format of the input to the program.
>The input to the program may be KISS frames, WA8DED host mode frames,
>etc. You cannot use "TNC text" as the input to a program that is
>expecting to see KISS frames, on the grounds that somewhere in its
>processing it can handle that data. To handle "TNC text" as the program
>input would require compliance testing to be done on a special version
>of the program with some sort of input "hook" added.
>

I disagree with this. WinAPRS supports both normal TEXT mode TNCs and KISS mode. Additionally it supports AGWPE, in all 3 cases, the parsing code converts the "frame" into an internal format before any "APRS" parsing begins. This is the part that separates out the source call, the destination call, the digis, etc. Therefore the test suite from a NORMAL text file test the SAME parser as other modes use. The difference is I do not have any code to read a "binary" kiss mode file. Even if you were to have a KISS mode file, you have issues as to if it has the fill characters inserted or removed.

If a particular program needed to use KISS mode files. I would expect that author to write his own program to convert normal text mode files to KISS files for ingesting into the program itself. The "official" files need to be easily read by anyone with a text editor.

Mark

--

Mark Sproul <http://ecs.rutgers.edu> | msproul@jove.rutgers.edu
Manager - Engineering Computing Services | 732-445-3121
Eng B-124-C

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:44:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11194
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:44:39 -0600 (CST)
Message-Id: <LYR11589-3329-2001.03.28-10.00.43--
lyris.aprsspec@tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Wed, 28 Mar 2001 10:43:03 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11608-3324-2001.03.28-09.42.10--dvanhorn@cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.2.7.2.20010328103618.032efe10@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Would it be a useful thing, if I was to create a small box that output
APRS-Talk, in both correct and munged form?

I'm thinking an AVR (because I prefer them) Max232 chip, and not much else,
which could be reloaded with new firmware by anyone at near zero cost.

I'd need definitions of properly formatted messages, and I could have it

spit out "canned" errors, as well as randomly bash a byte or two in each message. It would look like a TNC to the program.

It could even be made to accept commands like a TNC, though that adds another layer of complication.

Since the first half (correct packets and canned errors) would be absolutely repeatable, it should make testing very simple. If the authors feed me any problems they pick up, then I can put that in to the next rev, as a specific test.

My only question would be rom capacity, might have to add an external EEPROM if the canned part gets too large, which would take a second layer of no-cost programming to reload as needed..

If succesful, we could end up with a cheap and repeatable way to verify compliance.

--

Dave's Engineering Page: <http://www.dvanhorn.org>
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:55:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11791
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:54:57 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-3331-2001.03.28-10.10.59--
lyris.aprsspec@tapr.org>
In-Reply-To: <4.3.2.7.2.20010328103618.032efe10@mail.cedar.net>
References: <4.3.2.7.2.20010328103618.032efe10@mail.cedar.net>
Date: Wed, 28 Mar 2001 10:50:22 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: APRS Compliance
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <a05010427b6e7b7fe2a1f@[128.6.238.130]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 10:43 AM -0500 3/28/01, David VanHorn wrote:

>Would it be a useful thing, if I was to create a small box that
>output APRS-Talk, in both correct and munged form?
>
>I'm thinking an AVR (because I prefer them) Max232 chip, and not
>much else, which could be reloaded with new firmware by anyone at
>near zero cost.
>
>I'd need definitions of properly formatted messages, and I could
>have it spit out "canned" errors, as well as randomly bash a byte or
>two in each message. It would look like a TNC to the program.

The way I do it is much simpler, I hook 2 computers to each other via a serial port. On one, I run APRS (Mac or Win) on the other, I use a terminal program to dump the text file out the serial port. I can now send any of the 100's of log files that I have (most from debugging user reported problems) to the program for a real "live" simulation. I have even done this using 2 serial ports on the same computer. Either way, it works well, costs nothing, and I can send what ever files I want.

Mark

--

Mark Sproul <http://ecs.rutgers.edu> | msproul@jove.rutgers.edu
Manager - Engineering Computing Services | 732-445-3121
Eng B-124-C

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 09:57:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA12152
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 09:57:40 -0600 (CST)
Message-Id: <LYR11589-3332-2001.03.28-10.13.46--
lyris.aprsspec@tapr.org>

X-Sender: dvanhorn@mail.cedar.net
Date: Wed, 28 Mar 2001 10:56:13 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11608-3331-2001.03.28-10.10.59--dvanhorn#cedar.net@lists.tapr.org>
References: <4.3.2.7.2.20010328103618.032efe10@mail.cedar.net>
<4.3.2.7.2.20010328103618.032efe10@mail.cedar.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.2.7.2.20010328105546.032923d0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>The way I do it is much simpler, I hook 2 computers to each other via a
>serial port. On one, I run APRS (Mac or Win) on the other, I use a
>terminal program to dump the text file out the serial port. I can now
>send any of the 100's of log files that I have (most from debugging user
>reported problems) to the program for a real "live" simulation. I have
>even done this using 2 serial ports on the same computer. Either way, it
>works well, costs nothing, and I can send what ever files I want.

Ok, that works for me..

Do we need web space to host these test files?

--

Dave's Engineering Page: <http://www.dvanhorn.org>

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 10:01:41 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA12273

for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 10:01:36 -0600 (CST)
X-Authentication-Warning: bigsky.antelope.net: jmaslak owned process doing -bs
Date: Wed, 28 Mar 2001 09:04:03 -0700 (MST)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR21162-3329-2001.03.28-10.00.43--
jmaslak#antelope.net@lists.tapr.org>
Message-ID: <LYR11589-3333-2001.03.28-10.17.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.21.0103280853100.20063-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Mar 2001, David VanHorn wrote:

<Talking about hardware device>
> If succesful, we could end up with a cheap and repeatable way to verify
> compliance.

The concern I have with this:

How do you test the Ham Hud 3 with it's internal packet modem?

Other than this, I really like this idea, and it seems clearly the way to do it.

I might suggest, though, that you look at the Palm Pilot. Not only could it send the packets just fine, but it could ask questions like, "I just sent a message from N7XUC-13 to N7XUC-1. Does the program alert you to this? <YES/no>". I can't think of any other way to test things like message reception (yes, it acks, but did it actually receive it?) and bullettin overwriting (newer bulletins overwrite older ones).

The hard part of this isn't the Palm Pilot programming. The hard part is the script the program runs.

I propose the following "language" for writing a script. If someone writes a script using this language, I'll test it.

(I don't know if I got the packet format right)

(note that I quote *'s - since * becomes a wildcard)

T Messaging Test

S N7XUC>WIDE*,APZCRT::N7XUC-1 :Test Message {322

E 60 N7XUC-1>*:N7XUC :ack{322

P Did the "Test Message" I just sent display properly?

R Yes

R No

C Yes

"T" is the command to start a text. One argument is given, the name of the test (so it can be put on a report).

"S" means "SEND"

"E" means "EXPECT". It takes two parameters, a timeout in seconds and what it expects.

"P" means "PROMPT". It asks the user a question. It takes one argument, the question.

"R" means "RESPONSE". This is only valid following a "PROMPT". Each of these gives a valid response.

"C" means "CORRECT". This is the answer that SHOULD be given.

If any one of these fails, all the other "S"ends should be sent in that command and no "E" or "P"s should be processed until the next "T".

--

Joel

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 10:32:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA14248
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 10:31:59 -0600 (CST)
Message-Id: <LYR11589-3339-2001.03.28-10.48.05--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 10:32:51 -0600
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Mime-Version: 1.0

Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sac1bdf0.091@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id KAA14248

My guess is that whether the software is accepting data from a TNC, IP, AGWPE or Text file, most programs will use the same parser engine, and it will be based on the "simple" terminal data formats found in the APRS Spec.

A text file is portable and easy to transmit, and I suspect most APRS programs have the ability to read them already.

The issue as I see it is documentable results. I can hang out on second.aprs.net for a month at a time, but unless I know what is SUPPOSED to happen I will probably miss some things. The real value of a test file is the accompanying document that describes what should of happened, i.e. a digi with a "N" overlay at this coordinate, an object at this coordinate with this symbol and this overlay etc.

I never proposed that the test file should be the ultimate test of APRS compliance. It it would be a great tool for developers who want to test their software against some sort of known standard.

Regards,

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 28 10:42:45 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA14806
for <lyris.aprsspec@tappr.org>; Wed, 28 Mar 2001 10:42:41 -0600 (CST)

Date: Wed, 28 Mar 2001 10:42:29 -0600
Message-Id: <LYR11589-3342-2001.03.28-10.58.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
X-IPAddress: 209.83.83.22
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200103281642.KAA14772@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

An internet server like aprsserve could stream out a test file for the PC programs (doesn't help much for things like radios with built-in APRS, unless you gate it back out to RF).

You could take it a step further and have the internet server send you message packets telling the operator to test a function of the program (ie beacon a position) and then send back a message saying that it was done correctly.

To test sending capabilities from radio's like the D700 you could send a message to the server saying "I'm about to test ... tell me if this is properly formatted" - then send your packet - then wait for a response back.

Hopefully what I wrote is coherent ... I woke up waaaay to early this morning.

-James Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:00:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA15910

for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:00:27 -0600 (CST)
Message-Id: <LYR11589-3347-2001.03.28-11.16.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Wed, 28 Mar 2001 12:00:17 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200103281700.JAA19457@harrier.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/28/01 9:23 AM Roger Barker (roger@peaksys.co.uk) wrote:

>I don't quite see it like that. If someone is going to make the huge
>effort to produce a "test suite", I would have thought it was better to
>provide a reference set of KISS frames, that can be very easily
>converted into any input format the author may require. A binary
>representation of a frame is a more reliable definition than something
>that has supposedly come out of a TNC2 with a particular set of
>parameters configured.

>

How are these going to be created and edited? To do KISS frames directly,
you would either need to use a hex editor, which would be very tedious,
or write a custom editing engine. Anyone that wanted to look at the test
suite would either have to get the editing program, or go to the trouble
of converting them by hand. Seems like a needlessly complex method.

Since you are proposing to require a conversion routine to go from KISS
to text, why not write and edit in the more easily readable and usable
format, and convert to KISS for those few apps that need it?

Can you describe an instance that has any relavence to the APRS spec,
where the tnc-text would not be representative of the KISS format, and
could not be easily converted?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:10:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA16484
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:10:32 -0600 (CST)
Message-Id: <LYR11589-3348-2001.03.28-11.26.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Wed, 28 Mar 2001 12:08:54 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS Compliance
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <Pine.LNX.4.21.0103280853100.20063-100000@bigsky.antelope.n
et>
References: <LYR21162-3329-2001.03.28-10.00.43--
jmaslak@antelope.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.2.7.2.20010328111608.036e6c50@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>How do you test the Ham Hud 3 with it's internal packet modem?

Use another TNC to feed it stuff.

>The hard part of this isn't the Palm Pilot programming. The hard part is
>the script the program runs.

It's a platform, but I don't have tools for it.

--

Dave's Engineering Page: <http://www.dvanhorn.org>
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:33:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA18573
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:33:29 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 28 Mar 2001 12:32:36 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3332-2001.03.28-10.13.46--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-3352-2001.03.28-11.49.28--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10103281229060.20688-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Mar 2001, David VanHorn wrote about the APRS test files.

> Do we need web space to host these test files?

I began a test file long ago, it takes a lot of work. Because each format

packet should be self explanatory. So that the viewer does not have to hand analyze each one to see if it is correct or not.

For example a COMPRESSED posit packet might include this text:

HEADER:POSIT-FORMAT..."This is at the Washington Monumnet"

Thus if its there, it worked. If its not there, its broke.

Just sending a whole bunch of packets is a waste of time, unless they are "self-proving"... That is where the creativity and effort is involved in building the test suite...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:42:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19012
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:42:29 -0600 (CST)
Message-Id: <LYR11589-3361-2001.03.28-11.58.30--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Wed, 28 Mar 2001 12:40:47 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS Compliance
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-3352-2001.03.28-11.49.28--dvanhorn#cedar.net@lists.tapr.org>
References: <LYR11586-3332-2001.03.28-10.13.46--
bruninga#nadm.navy.mil@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.2.7.2.20010328123609.034e8ac0@mail.cedar.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 12:32 PM 3/28/01 -0500, Bob Bruninga wrote:

>On Wed, 28 Mar 2001, David VanHorn wrote about the APRS test files.

>

> > Do we need web space to host these test files?

>

>I began a test file long ago, it takes a lot of work. Because each format
>packet should be self explanatory. So that the viewer does not have to
>hand analyze each one to see if it is correct or not.

>

>For example a COMPRESSED posit packet might include this text:

>

> HEADER:POSIT-FORMAT..."This is at the Washington Monumnet"

>

>Thus if its there, it worked. If its not there, its broke.

That's cool, but you could also have a file of data that is known to create
"problem X". You download it, play it to your system, and debug till not
"problem X".

You can also have large "wads" of correct packets in all their various
forms, which systems must accept without crashing.

--

Dave's Engineering Page: <http://www.dvanhorn.org>

Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:57:47 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19924

for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:57:43 -0600 (CST)

Message-Id: <LYR11589-3365-2001.03.28-12.13.45--

lyris.aprsspec@tapr.org>

Date: Wed, 28 Mar 2001 11:58:32 -0600

From: "Rich Beckwith" <Rich@dps.state.mo.us>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: APRS Compliance

Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sac1d208.025@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA19924

This is where "categories" of APRS devices would be nice. My primary interest has to do with the way objects are displayed on maps, bulletins, watches etc are handled, so I am viewing the test from a slightly different perspective.

It is possible that the HamHud 2100 will have mapping, or the D7000AZ, but for now they deal with a subset of the spec. That doesn't mean they won't be entirely compliant with portions of the spec appropriate for those platforms.

I doubt anyone currently using any APRS software made their decision based on compliance, but instead based their decision on platform and feature set. I don't plan on marketing APRS software with an "APRS COMPLIANT" logo on box. Maybe a picture of Bob?

I am primarily interested in compliance from a tactical, decision support perspective. A developer should have some idea of how well his software supports this aspect of APRS design specification, and have a tool for determining if there is a problem and fixing it.

If I can't see it, or its in the wrong place, or doesn't accurately represent the situation...

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 11:59:05 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA20021
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 11:59:01 -0600 (CST)

Message-ID: <LYR11589-3366-2001.03.28-12.15.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 18:58:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR13460-3347-2001.03.28-11.16.34--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-3347-2001.03.28-11.16.34--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <r\$JJB6A1Yiw6Ew2k@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <LYR13460-3347-2001.03.28-11.16.34--roger#peaksys.co.uk@lists
.tapr.org>, Steve Dimse <k4hg@tapr.org> writes
[snip]

>

>Since you are proposing to require a conversion routine to go from KISS
>to text, why not write and edit in the more easily readable and usable
>format, and convert to KISS for those few apps that need it?

One of the bits of my message you didn't quote said "It's not a problem
for me, because I'm well capable of putting together an input converter
to read the TNC text, and output it as UI KISS frames."

>Can you describe an instance that has any relavence to the APRS spec,
>where the tnc-text would not be representative of the KISS format, and
>could not be easily converted?

An obvious example is when the received frame isn't even a UI frame -
but I think that opens up a whole new can of worms, and the spec doesn't
really handle the situation, so I'll withdraw the comment... ;-)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 12:31:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA22998
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 12:31:49 -0600 (CST)
Message-Id: <LYR11589-3370-2001.03.28-12.47.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 12:31:40 -0600
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <iss.357f.3ac22e0c.6a38d.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Wed, 28 Mar 2001 12:40:47 -0500
> From: David VanHorn <dvanhorn@cedar.net>
> Subject: [aprsspec] Re: APRS Compliance
> [...]
> You can also have large "wads" of correct packets in all their various
> forms, which systems must accept without crashing.

You also ought to create large wads of incorrect packets, which systems ought to accept without crashing. (I believe that this is particularly true, given the emphasis that has been placed on the use of APRS in emergency situations.)

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 12:35:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA23352
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 12:35:39 -0600 (CST)
Message-Id: <LYR11589-3371-2001.03.28-12.51.47--
lyris.aprsspec#tapr.org@lists.tapr.org>

X-Sender: dvanhorn@mail.cedar.net
Date: Wed, 28 Mar 2001 13:33:36 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11608-3370-2001.03.28-12.47.54--dvanhorn#cedar.net@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <4.3.2.7.2.20010328133253.031bb3b0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

>

>You also ought to create large wads of incorrect packets, which systems
>ought to accept without crashing. (I believe that this is particularly
>>true, given the emphasis that has been placed on the use of APRS
>in emergency situations.)

Yes...

A file full of hosed packets that caused problems in the past would be good
for regression testing.

--

Dave's Engineering Page: <http://www.dvanhorn.org>
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 28 14:35:38 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA04166
for <lyris.aprsspec@tappr.org>; Wed, 28 Mar 2001 14:35:37 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-3398-2001.03.28-14.51.43-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 15:27:50 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: APRS Compliance
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <a0501042fb6e7f9578496@[128.6.238.130]>
<LYR11591-3361-2001.03.28-11.58.30--kb2ici#amsat.org@lists.tapr.org>
<LYR11586-3332-2001.03.28-10.13.46--bruninga#nadm.navy.mil@lists.tapr.org>
<LYR11591-3361-2001.03.28-11.58.30--kb2ici#amsat.org@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>That's cool, but you could also have a file of data that is known to
>create "problem X". You download it, play it to your system, and
>debug till not "problem X".
>
>You can also have large "wads" of correct packets in all their
>various forms, which systems must accept without crashing.
>

This is exactly what I have been doing for years. I have a large collection of both good and bad files. In the early years, Bob and I shared these file and every time he came up with something new, he would send me a file. I would then work on code until it behaved properly.

Mark

--

Mark Sproul http://ecs.rutgers.edu | msproul@jove.rutgers.edu
Manager - Engineering Computing Services | 732-445-3121
Eng B-124-C

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Mar 28 18:48:18 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26695
for <lyris.aprsspec@tappr.org>; Wed, 28 Mar 2001 18:48:12 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3436-2001.03.28-19.04.20--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 28 Mar 2001 19:47:46 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3119-2001.03.27-11.42.31--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AC28632.E84C84BE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

"Rich Beckwith" wrote:

> > Subject: [aprsspec] APRS Compliance
> >
> > It occurred to me today that testing for APRS compliance would be easier
> > if a "test" file was available. If it were accompanied by a check list,
> > the APRS author could verify the results produced by his software to
> > determine conformance to the spec.

I've seen over 25 postings on this subject.

Yet no-one asks the obvious question.

Who is going to do it?

~2 years ago, in its charter, the APRS-WG clearly outlined a verification suite along with the certification process for the product claim of "APRS Certified". So the need was clearly recognized at that time.

I think TAPR owes it to the amateur community either to replace the members on

the WG that resigned and once again jump start the group, or officially terminate the group. I know for a fact a number of people have volunteered to help out in various regards with the WG, both to replace the members that resigned as well as to start documenting other aspects of the protocol. Yet to my knowledge no action has been taken here.

The problem here is not one of blame, but one of the whole project is in limbo. Nobody wants to step on anybodies toes, hence the end result is not only that nothing gets done, but that those that would do something don't want to offend those that did by forming a new group to manage APRS.

It just seemed so obvious to me all these postings, while good and well intentioned, wouldn't amount to a hill of beans just as all the posts on the APRSSERVE protocol didn't amount to anything of substance. It is not the fact that no-one is offering to help, but that the whole process is in the twilight zone, at best.

Or am I mis-informed here?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 19:31:04 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA00973
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 19:31:02 -0600 (CST)
Message-Id: <LYR11589-3440-2001.03.28-19.47.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Wed, 28 Mar 2001 20:30:49 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200103290130.RAA29272@swan.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/28/01 7:47 PM Jeff King (jeff@aerodata.net) wrote:

>I think TAPR owes it to the amateur community either to replace the
>members on
>the WG that resigned and once again jump start the group, or officially
>terminate
>the group.

If you look closely at the APRS WG charter, you'll see that it is not a TAPR-owned organization. TAPR has one vote on the committee, no more. While TAPR was important in the formation of the WG, it cannot accomplish either of the suggestions you make.

>It just seemed so obvious to me all these postings, while good and well
>intentioned, wouldn't
>amount to a hill of beans just as all the posts on the APRSSERVE protocol
>didn't amount to
>anything of substance. It is not the fact that no-one is offering to help,
>but that the
>whole process is in the twilight zone, at best.
>

I have a slightly different take on why the APRS Internet Protocol went nowhere (I really prefer everyone stop calling it APRServe protocol). The APRS Spec exists solely because of the superhuman effort of one person, Ian Wade, who took the time to understand and document the protocol. I don't know how much time he spent on this, but I'll bet it over 200 hours.

Note that Ian was never a member of the APRSWG. He came from outside and made the enormous personal commitment required. When he did so, his efforts were greatfully accepted by the APRSWG. No one came forward to make a similar commitment to the Internet documentation project. If someone had, I believe the results would have been different.

I agree that all this discussion on the test suite is likely to end up just like the Internet discussion. Regardless of the number of people that offer to help, there has to be one single person that steps forward to coordinate all these volunteers (and in many ways more people make it tougher). In efforts like this, the coordinator ends up putting in far more work than any of the troops. This person could come from inside the WG, or outside, it doesn't matter.

To say "The APRS WG should take this task on", or "TAPR should make it happen" overlooks the reality that both these organizations are composed of individuals with their own time constraints and priorities. Should Bob be forced to do it? John Ackermann as president of TAPR (and the non-voting administrative chair of the WG)? One of the board members of TAPR picked at random? A callsign picked out of the callbook? Who has the power to force these people to do it? Even if you could, the results would be poor, an effort like this must be a labor of love, and so far, no one seems to be lusting after this task!

If someone did step forward, make a serious proposal to the APRSWG, and back it up with the requisite effort, I bet they will find a warm reception, and I wouldn't be surprised if such a person were offered a spot in the APRS WG.

In case some people don't recall, I'm not a member of the WG any longer, and I speak only for myself on this issue. I do not have the time or inclination to take this task on. Perhaps someone out there does...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 20:37:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA05729
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 20:37:34 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3450-2001.03.28-20.53.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 21:37:03 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3440-2001.03.28-19.47.11--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC29FCF.E52D186A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

You missed the point, but I'll try anyways

Steve Dimse wrote:

>
> If you look closely at the APRS WG charter, you'll see that it is not a
> TAPR-owned organization.

It is on the TAPR web page, it was commissioned by the then TAPR president, and to this day I see TAPR officers taking credit in TAPR's name for the good work documenting the APRSSPEC.

If I looks like a duck, quacks like a duck and smells like a duck, I call it a duck regardless of any wiggle room that was written into the charter that you are quoting to us.

In any case, I am not casting aspersions, just suggesting we call a spade a spade. Does the WG still exist?

> TAPR has one vote on the committee, no more.
> While TAPR was important in the formation of the WG, it cannot accomplish
> either of the suggestions you make.

Can't or won't? Being TAPR created the WG, I see no reason why they could not jump start it if they had the will and desire to do this.

> Note that Ian was never a member of the APRSWG. He came from outside and
> made the enormous personal commitment required. When he did so, his
> efforts were greatfully accepted by the APRSWG. No one came forward to
> make a similar commitment to the Internet documentation project. If
> someone had, I believe the results would have been different.

That is not how I understand it.

> I agree that all this discussion on the test suite is likely to end up
> just like the Internet discussion.

OK, at least we agree here, although possible for different reasons.

> To say "The APRS WG should take this task on", or "TAPR should make it
> happen"

When did I say this? You really need to read what I post instead of what you want to hear. I'm simply stating if the APRS-WG has ceased to exist, that needs to be stated. It is fairly clear to me that another protocol committee needs to be formed, yet the existence of this ghost protocol committee is a potential negative factor. Being you feel that Ian Wade was the only contributing person of the old WG, and I understand he has resigned, I would think you agree the WG has ceased to exist. A indeterminate state is not a positive thing and I know at least one potential motivated volunteer it has discouraged due to them not wanting to rock the boat.

What I *did* say is TAPR owes a commitment to the amateur community. This goes beyond any legal loopholes you have cited here. It appears to me that a validation suite is both wanted and needed and we both agree with the current situation, this is unlikely to happen. Stepping outside the legal loopholes, it appears promoting such a thing is within TAPR's mission plan.

> If someone did step forward, make a serious proposal to the APRSWG, and
> back it up with the requisite effort, I bet they will find a warm
> reception, and I wouldn't be surprised if such a person were offered a
> spot in the APRS WG.

1. Serious proposals have already been made to the WG, with the requisite effort, and I know you are aware of this. At least one of these persons was a serious player.

Yet nothing apparently came of it. Which leads me to the obvious question of...

2. Does the APRS-WG still exist?

Anyways, just to stay focused, I'm just suggesting that all good projects need conclusions, and this one does as well. It certainly doesn't mean by officially acknowledging the disbandment of the existing WG anything will happen... to a lesser degree I share your cynical attitude, yet the existence of this ghost group is a discouragment/distraction to the formation of any other group.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 21:23:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA09001
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 21:23:25 -0600 (CST)
From: K3for@aol.com
Message-ID: <LYR11589-3465-2001.03.28-21.39.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Mar 2001 22:22:32 EST
Subject: [aprsspec] Re: APRS WG
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <a0.121828d5.27f40478@aol.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I gotta quote Jeff exactly here or he's going to whine more, although I did cut out a few lines so he'll retaliate anyway!

>>What I *did* say is TAPR owes a commitment to the amateur community... It appears to me that a validation suite is both wanted and needed and we both agree with the current situation, this is unlikely to happen.

>>the existence of this ghost group is a discouragment/distraction to the formation of any other group.

Does anybody else disagree with these two? A lot of folks have undertaken the development of software and other initiatives on their own and shared it with the APRS community without the endorsement, assistance, or participation of the WG. Most of the time, it was because they *WANTED* to do it by themselves, and got whatever assistance they needed from email, web sites, and asked for a few snippets of code where necessary. If there are some of you out there being held back by this ghost WG, "BOO" on you!

The APRS WG members continue to appear to welcome anyone who seriously starts to put effort into a project, as long as it doesn't add more to the workload of what they already still incredibly find the time to devote. And APRS is still being expanded in a lot of directions. The authors are doing a pretty

good job of certifying and testing their own work (if not for pride then to keep the complaints down.)

A certification algorithm is a good idea, yes. And, if it were a GREAT idea, it would have been done by now.

Seriously, is "TAPR" going to say to Bob et. al. and say "Sorry, guys, you're not doing enough. We're firing you and opening up seats for a new group" ? Heck, we never even refilled Steve's seat :-)

I think there's plenty of room and goodwill for anyone who wants to pursue an aspect of APRS that seems weak or needs to be better explored. No one is stopping anybody, and certainly not the WG.

But, let's take a moment to check out what's been done accomplished recently.
Sprouls fixing up the UHE's and other things self-discovered
Steve's keeping findu running and improving
APR Bob's sat tracker hardware and software
Mike's new release of Palm PocketAPRS
Barker's PSK31 work
HamHUD next generation
TinyTrakker economizing
APRS+SA enhancements
Ev's Beaconet data
Mark's Citadels and other hardware projects
And heck, that's just off the top of my head.

Thanks, everybody - I think we're doing pretty well for a bunch of "amateurs"
!

<pun>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 22:20:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA12475
for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 22:20:12 -0600 (CST)
Message-Id: <LYR11589-3468-2001.03.28-22.36.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Wed, 28 Mar 2001 23:19:54 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200103290419.UAA29399@avocet.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/28/01 9:37 PM Jeff King (jeff@aerodata.net) wrote:

>>
>> If you look closely at the APRS WG charter, you'll see that it is not a
>> TAPR-owned organization.
>
>It is on the TAPR web page, it was commissioned by the then TAPR
>president, and
>to this day I see TAPR officers taking credit in TAPR's name for the good
>work documenting the APRSSPEC.
>
>If I looks like a duck, quacks like a duck and smells like a duck, I call
>it a duck regardless of any wiggle room that was written into the charter
>that you are quoting to us.
>
The APRSWG came out of a meeting that was arranged and largely paid for
by TAPR. It was organized by Greg because of an ongoing dispute between
Bob and myself over the future of APRS. The specific issue was ownership
of the protocol, I was fighting for an open spec that would be open to
all programmers. TAPR's interest was in nuturing APRS, making sure it
didn't die because of the dispute.

In forming the working group, TAPR was very careful to avoid both the
appearance and the substance of "taking over" APRS. APRS is Bob's baby,
and he has every right to have a big say in its future. Hence the reason
that he gets two votes, this was one of the least contentious issues we
covered. The working group was set up as an autonomous entity quite
deliberately. This is not wiggle room. TAPR does not have a right to
control the APRS WG, or APRS in general. Only the APRS WG controls the
APRS WG. Sure they get web space and a TAPR mailing list, but so do a lot
of other projects over which TAPR has no control.

When I said that the spec existed "solely" because of the efforts of Ian,
my words were poorly chosen. Many people contributed, and I certainly
wouldn't want to shortchange John for his role of
moderator-with-the-patience-of-Job. What I was trying to convey was that
even with Ian's incredible effort, it took much longer than anyone

expected. Had Ian not been involved, it would never have been a finished document.

TAPR can certainly claim credit for creating the working group. And just as a parent gets to claim a share of credit for the achievements of their offspring, TAPR has right to be proud of the APRS Spec, it wouldn't exist without them (and without Ian, Bob, TSB, et. al.). But as every parent knows, children grow up, and you lose control over them. The APRS WG was born full-grown, and TAPR had no control (other than their single vote) from that point on.

>In any case, I am not casting aspersions, just suggesting we call a spade
>a spade. Does the WG still exist?

>

AFAIK, yes. Will it ever do anything useful? Personally, I have my doubts. I do wish they had taken my last recommendation before I resigned and appointed you to the vacant seat. I don't think the outcome would be any different, but you'd have an understanding of the difficulty in getting even this small group of very busy people to do anything.

>> TAPR has one vote on the committee, no more.

>> While TAPR was important in the formation of the WG, it cannot accomplish
>> either of the suggestions you make.

>

>Can't or won't? Being TAPR created the WG, I see no reason why they could
>not jump start it if they had the will and desire to do this.

>

TAPR does not have an official policy on this, I'm speaking for myself, but I honestly don't see what TAPR can do. As I said, this is a group of very busy people, none of them have the time to do the leg work of creating an Internet document or a test suite.

>

>> Note that Ian was never a member of the APRSWG. He came from outside and
>> made the enormous personal commitment required. When he did so, his
>> efforts were greatfully accepted by the APRSWG. No one came forward to
>> make a similar commitment to the Internet documentation project. If
>> someone had, I believe the results would have been different.

>

>That is not how I understand it.

>

Please share...

>

>> To say "The APRS WG should take this task on", or "TAPR should make it
>> happen"

>

>When did I say this? You really need to read what I post instead of what you
>want to hear.

On 3/28/01 7:47 PM Jeff King (jeff@aerodata.net) wrote:

>I think TAPR owes it to the amateur community either to replace the
>members on
>the WG that resigned and once again jump start the group, or officially
>terminate
>the group.

That sure sounds like you are saying TAPR should make his happen by jumpstarting the group. And you certainly seem to be saying that the APRS WG should be doing the test suite. My point is that "The APRS WG" is a group of individuals. AFAIK, none of them have the time or inclination to do either the internet document or test suite. Is there someone out there willing to take either of these tasks on? If so, I haven't heard of them...there are a lot of people that want to help, but none willing to shoulder the primary responsibility. One needn't be in the APRS WG to do this, though if someone was putting out the kind of effort Ian did, I would most definitely attempt to get the board to have our rep nominate the person for membership in the WG. Further, I would try to convince the other WG members to vote in favor. However, before I do something like this, I need to see someone accept the challenge, and do some serious work.

Over the last year, I've had perhaps 20 people come to me asking to help code things on findu. For each I've given my source code, accounts on my system as needed, and support. I've spent a lot of time walking people through things. Total lines of usable code returned to me: 0. So forgive me if I'm jaded, but before I throw my recommendation to someone, I want to see results.

>I'm simply stating if the APRS-WG has ceased to exist, that
>needs to be stated. It is fairly clear to me that another protocol committee
>needs to be formed, yet the existence of this ghost protocol committee is a
>potential negative factor. Being you feel that Ian Wade was the only
>contributing
>person of the old WG, and I understand he has resigned, I would think you
>agree the
>WG has ceased to exist. A indeterminate state is not a positive thing and I
>know at least one potential motivated volunteer it has discouraged due to
>them
>not wanting to rock the boat.
>

If Ian was a WG group member, it happened after I resigned. I don't believe that was likely, because by the time I left, he was pretty burned out on working with the group.

>What I *did* say is TAPR owes a commitment to the amateur community. This
>goes beyond any legal loopholes you have cited here. It appears to me

>that a validation suite is both wanted and needed and we both agree with
>the current situation, this is unlikely to happen. Stepping outside the
>legal loopholes, it appears promoting such a thing is within TAPR's mission
>plan.

>

OK, so exactly what would you have TAPR do? We don't have control of the
WG. Even if we did, and we completely restaffed the WG, what would that
accomplish? My most important point in the last post is that there needs
to be another Ian, one that just gets the job done. Not someone that
proposes to get it done, not someone that wants to help, but someone that
does it. And they don't need to be in the APRS WG. If someone does it,
I'll bet the APRS WG supports it. And if they don't, who cares? It will
still be there, useful to and appreciated by a lot of APRSers.

>

>> If someone did step forward, make a serious proposal to the APRSWG, and
>> back it up with the requisite effort, I bet they will find a warm
>> reception, and I wouldn't be surprised if such a person were offered a
>> spot in the APRS WG.

>

>1. Serious proposals have already been made to the WG, with the requisite
>effort,

>and I know you are aware of this. At least one of these persons was a
>serious player.

>Yet nothing apparently came of it. Which leads me to the obvious question
>of...

>

I know of no such effort. Who has produced a start on either the internet
protocol or test suite?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 28 22:32:54 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA13406

for <lyris.aprsspec@tapr.org>; Wed, 28 Mar 2001 22:32:49 -0600 (CST)

Errors-To: <jeff@aerodata.net>

Message-ID: <LYR11589-3471-2001.03.28-22.48.53--

lyris.aprsspec@tapr.org@lists.tapr.org>

Date: Wed, 28 Mar 2001 23:32:13 -0500

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS WG
References: <LYR22299-3465-2001.03.28-21.39.31--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AC2BACD.1082248E@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

K3for@aol.com wrote:

>

> I gotta quote Jeff exactly here or he's going to whine more, although I did
> cut out a few lines so he'll retaliate anyway!

I simply was stating that we have already had a discussion like this before,
and it seemed ashamed to spend so much time on it when we had no outlet
for it. Even Steve Dimse agreed with this. I saw 25+ posts on the need for
a validation algortim, and I was pointing out this simple fact.

> The APRS WG members continue to appear to welcome anyone who seriously starts
> to put effort into a project,

I'm not talking about the past, I'm talking about now.

Does the APRS-WG still exist? It is a simple question. If it doesn't exist, the
a new group should be formed to address the needs the posters are indentify.

Real simple.

> Thanks, everybody - I think we're doing pretty well for a bunch of "amateurs"

Again, the accomplishments of the past was not the point.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 29 00:30:45 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA26539
for <lyris.aprsspec@tapr.org>; Thu, 29 Mar 2001 00:30:19 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3490-2001.03.29-00.46.24--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 29 Mar 2001 01:29:53 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3468-2001.03.28-22.36.18--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC2D661.B7C134B9@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse wrote:

>

> On 3/28/01 9:37 PM Jeff King (jeff@aerodata.net) wrote:

> >If I looks like a duck, quacks like a duck and smells like a duck, I call
> >it a duck regardless of any wiggle room that was written into the charter
> >that you are quoting to us.
> >
> The APRSWG came out of a meeting that was arranged and largely paid for
> by TAPR. It was organized by Greg because of an ongoing dispute between
> Bob and myself over the future of APRS.

Yeap, saw all this.

Also think it was a big mistake and stated so at the time. APRS needs and needed a firm standards body. I thought it should have been TAPR. I never agreed with the kissy face approach to it... and I believe my feelings are being borne out. With any standards body, you need to have firm control of the protocol. Protocols are NOT open source, they ultimately have to be dictatorships. Personally, I'd rather see Bob grab it back then what we have now... a benevolent dictator is far far better than anarchy.

> TAPR can certainly claim credit for creating the working group. And just
> as a parent gets to claim a share of credit for the achievements of their
> offspring, TAPR has right to be proud of the APRS Spec, it wouldn't exist
> without them (and without Ian, Bob, TSB, et. al.). But as every parent
> knows, children grow up, and you lose control over them. The APRS WG was
> born full-grown, and TAPR had no control (other than their single vote)
> from that point on.

OK. Fair enough. Your child grows up, turns 18, and you loose control of them. Yet when they are 19, you get a call from the hospital or worse yet, the morgue, do you tell the state they are on their own? No, you help them back on their feet. This was the role I was suggesting here. I understand it is not your legal responsibility.... yet clearly the child is sick. Either sign the death certificate (or stop saying they still exist) or help them get back to health.

> >In any case, I am not casting aspersions, just suggesting we call a spade
> >a spade. Does the WG still exist?
> >
> AFAIK, yes.

Yet of all the times this has come up, I only recall Bob saying they still existed. You of course are no longer a member yet still seem to get involved in everyone of these discussions.

> Will it ever do anything useful? Personally, I have my
> doubts.

Doubts or hopes?

> I do wish they had taken my last recommendation before I resigned
> and appointed you to the vacant seat.

Yes, you mentioned that you had suggested me and Tim Salo, yet I only heard this from you. I found this strange when I knew of far more qualified

people then myself that had actually volunteered. And they were not accepted. While I have volunteered 11 separate times over the last 10 years for TAPR projects (and I am 0/11) this project I did not volunteer for. That is not to say I wouldn't have accepted if called upon, yet that didn't happen nor did anyone on the WG acknowledge to me you did what you said you did.

- > I don't think the outcome would be
- > any different, but you'd have an understanding of the difficulty in
- > getting even this small group of very busy people to do anything.

Part of volunteering for any project is having both the skills, interest and time to contribute. This is something I have taken into account every time I have volunteered. If someone doesn't have the time to contribute, they should resign. So if such was the case on the WG as you outline, with mostly disinterested parties

onboard, I would guess you would be correct as one motivated person couldn't make much of a difference, in particular if they met with resistance.

- > >Can't or won't? Being TAPR created the WG, I see no reason why they could
- > >not jump start it if they had the will and desire to do this.
- > >
- > TAPR does not have an official policy on this, I'm speaking for myself,
- > but I honestly don't see what TAPR can do.

Force the issue. Mentor the group back to health or sign the death certificate. Simply follow TAPR's mission plan would be good. Steve Jobs didn't say I told you so when Apple was in trouble, he came back and helped the company get back to health.

- > As I said, this is a group of
- > very busy people, none of them have the time to do the leg work of
- > creating an Internet document or a test suite.

Then help them recognize they don't have the time, and resign their seats so those that volunteered can fill them. Ego's will have to be stroked in that sometimes recognizing your limitations is a attribute and not a negative.

- > >> No one came forward to
- > >> make a similar commitment to the Internet documentation project. If
- > >> someone had, I believe the results would have been different.
- > >
- > >That is not how I understand it.
- > >

> Please share...

It is not mine to share. I just know otherwise. Being you are not omnipresent, I fail to see how you can dispute this. You'll just need to take my word on it.

> On 3/28/01 7:47 PM Jeff King (jeff@aerodata.net) wrote:

>

> >I think TAPR owes it to the amateur community either to replace the
> >members on
> >the WG that resigned and once again jump start the group, or officially
> >terminate
> >the group.

>

> That sure sounds like you are saying TAPR should make his happen by
> jumpstarting the group.

Yes, I said the part about jump-starting. I think this is what TAPR did when the group started, and if the group is sick, it is justified and well within TAPR's mission plan.

> And you certainly seem to be saying that the APRS
> WG should be doing the test suite.

Did I say that? Don't recall, but this written document stated that as well:
ftp://ftp.tapr.org/aprssi/aprssi/aprssi/announcements/APRSWG_charter.pdf
so at worst all I am guilty of here is reading the above.

> My point is that "The APRS WG" is a
> group of individuals. AFAIK, none of them have the time or inclination to
> do either the internet document or test suite.

Yet TAPR and them signed a document stating such. I'm *not* demanding they do as such, I'm just suggesting some closure here might be of benefit. I know you like to harp on how no-one volunteers, yet this whole issue is volatile. Look at the responses so far and how charged it has gotten so quickly. And for someone to form a alternate group when the "existing" APRS-WG still is on the books? My spin on it is either fix the existing WG or clear the decks so another group can be formed.

> Is there someone out there
> willing to take either of these tasks on? If so, I haven't heard of
> them...there are a lot of people that want to help, but none willing to
> shoulder the primary responsibility.

What, you hope if you say that enough it will be true? Sorry, but I know of at least two well qualified people that volunteered to fill your empty seat

on the WG without a response from the WG.

> However, before I do something like
> this, I need to see someone accept the challenge, and do some serious
> work.

You mean like Bill Diaz? He has put hundreds of hours into debugging and writting helper applicatiосn (and now AHUB) to fix protocol violations on APRSSERVE.

> >What I *did* say is TAPR owes a commitment to the amateur community. This
> >goes beyond any legal loopholes you have cited here. It appears to me
> >that a validation suite is both wanted and needed and we both agree with
> >the current situation, this is unlikely to happen. Stepping outside the
> >legal loopholes, it appears promoting such a thing is within TAPR's mission
> >plan.
> >
> OK, so exactly what would you have TAPR do?

Force the issue. Mentor the group back to health or sign the death certificate.
Simply follow TAPR's mission plan.

> We don't have control of the
> WG. Even if we did, and we completely restaffed the WG, what would that
> accomplish?

You have already indicated there are people on the WG who don't have time for it. Just like you wouldn't accept people on the TAPR BOD who don't have time for it, the same should apply to any group. A volunteer organization is a very tricky thing.... people typically volunteer for a reason, often it is wanting to contribute and also receive recognition for their efforts. Managing the volunteer organization is even harder. As people's "compensation" is not monetary, you have to recognize people's motivations. Resigning can be a honorable thing... it doesn't always have to be a resignation in a huff or flaming certain members of the group. The role of the TAPR leadership should be to promote a friendly changing of the guard, be it within TAPR or their satellite organizations.

> My most important point in the last post is that there needs
> to be another Ian, one that just gets the job done. Not someone that
> proposes to get it done, not someone that wants to help, but someone that
> does it. And they don't need to be in the APRS WG. If someone does it,
> I'll bet the APRS WG supports it. And if they don't, who cares? It will
> still be there, useful to and appreciated by a lot of APRSers.

I posted a outline of a APRS internet document. I seem to recall, no-one,

including yourself or anyone on the WG, made any comments on it when I first posted it. So it is not as simple as "building it and they will come" no matter how many times you say it. Not only do you have the need for people to volunteer, you also must have the ability to accept newcomers. The patient is simply sick and a decision has to be made.

> >1. Serious proposals have already been made to the WG, with the requisite
> >effort,
> >and I know you are aware of this. At least one of these persons was a
> >serious player.
> >Yet nothing apparently came of it. Which leads me to the obvious question
> >of...
> >
> I know of no such effort. Who has produced a start on either the internet
> protocol or test suite?

AFILTER was a excellent start along with the discussions, documentation and volunteer efforts surrounding it. But of course, you knew this and have chosen to overlook it.

Listen, my point here was not to start a pissing match. My point here was to remind everyone posting the 25+ comments on the validation suite that unless we clear the table first, their efforts may be in vain.... something you appear to agree with.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 29 07:22:42 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA27367
for <lyris.aprsspec@tapr.org>; Thu, 29 Mar 2001 07:22:40 -0600 (CST)
Message-Id: <LYR11589-3530-2001.03.29-07.38.47--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Thu, 29 Mar 2001 08:22:30 -0500
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200103291322.FAA10405@snipe.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/29/01 1:29 AM Jeff King (jeff@aerodata.net) wrote:

>
>Yet of all the times this has come up, I only recall Bob saying they still
>existed. You of course are no longer a member yet still seem to get involved
>in everyone of these discussions.

>
I did not resign because I am disinterested in APRS. I resigned because I
felt I had done all I could to help the WG.

>> >> No one came forward to
>> >> make a similar commitment to the Internet documentation project. If
>> >> someone had, I believe the results would have been different.
>> >

>> >That is not how I understand it.

>> Please share...

>It is not mine to share. I just know otherwise. Being you are not

>omnipresent,

>I fail to see how you can dispute this. You'll just need to take my word
>on it.

>

Sorry, I'm not about to do that. I want names, dates, places. Otherwise,
I can only consider this unsubstantiated rumor. If someone had come
forward in the Internet Doc project, I would certainly have expected them
to let me know.

>> And you certainly seem to be saying that the APRS

>> WG should be doing the test suite.

>

>Did I say that? Don't recall, but this written document stated that as well:

>ftp://ftp.tapr.org/aprssi/aprssi/aprssi/announcements/APRSWG_charter.pdf

>so at worst all I am guilty of here is reading the above.

>

Actually the test suite was to be developed by the certification
committee, with Bob at the head, not by the working group.

>> Is there someone out there

>> willing to take either of these tasks on? If so, I haven't heard of

>> them...there are a lot of people that want to help, but none willing to

>> shoulder the primary responsibility.

>
>What, you hope if you say that enough it will be true? Sorry, but I know of
>at least two well qualified people that volunteered to fill your empty seat
>on the WG without a response from the WG.

>
>I'm not talking about my empty seat. I'm talking about the internet
document and the test suite. Anyone could be on the WG, that takes no
skill and little time.

>> However, before I do something like
>> this, I need to see someone accept the challenge, and do some serious
>> work.

>
>You mean like Bill Diaz? He has put hundreds of hours into debugging and
>writting
>helper applicatiосn (and now AHUB) to fix protocol violations on APRSSERVE.

>
>Bill's program is very useful to Windows users, and I'm not putting it
down. But it is hardly the start of an internet protocol document. If
anything, it is more of a rigorous coding of the APRS spec document. And
even if it were directly concerning the Internet protocols, writing a
program and writing a document are not the same thing. APRServe and aprsd
are not "a good start" on the Internet Protocol Document, are they?

>> OK, so exactly what would you have TAPR do?

>
>Force the issue. Mentor the group back to health or sign the death
>certificate.
>Simply follow TAPR's mission plan.

>
>Once again, TAPR has one vote out of seven. It can't force anything, and
it isn't the WG's medical examiner.

>> My most important point in the last post is that there needs
>> to be another Ian, one that just gets the job done. Not someone that
>> proposes to get it done, not someone that wants to help, but someone that
>> does it. And they don't need to be in the APRS WG. If someone does it,
>> I'll bet the APRS WG supports it. And if they don't, who cares? It will
>> still be there, useful to and appreciated by a lot of APRSers.

>
>I posted a outline of a APRS internet document. I seem to recall, no-one,
>including yourself or anyone on the WG, made any comments on it when I first
>posted it. So it is not as simple as "building it and they will come" no
>matter how many times you say it. Not only do you have the need for people
>to volunteer, you also must have the ability to accept newcomers. The
>patient
>is simply sick and a decision has to be made.

The only thing I remember you posting was a summary of information you gained largely from docs I had written. If there was something else you posted please remind me. In any case, I'm not shy, if there was something in the doc I felt I should have commented on, I would have.

>

>> >1. Serious proposals have already been made to the WG, with the requisite
>> >effort,

>> >and I know you are aware of this. At least one of these persons was a
>> >serious player.

>> >Yet nothing apparently came of it. Which leads me to the obvious question
>> >of...

>> >

>> I know of no such effort. Who has produced a start on either the internet
>> protocol or test suite?

>

>AFILTER was a excellent start along with the discussions, documentation
>and volunteer efforts surrounding it. But of course, you knew this and have
>chosen to overlook it.

>

Again, AFilter, as good as it is, is an implementation of the APRS spec, not the Internet spec. The document is the hard part. Technical writing with clarity is very difficult. I can't do it, from what I seen neither can you. It is a specialized skill, one that is none-to-common.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 29 08:40:53 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA02226
for <lyris.aprsspec@tapr.org>; Thu, 29 Mar 2001 08:40:51 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 29 Mar 2001 09:40:37 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3436-2001.03.28-19.04.20--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-3536-2001.03.29-08.57.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10103290933310.18739-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Mar 2001, Jeff King wrote:

> Yet no-one asks the obvious question.
>
> Who is going to do it?
>
> the APRS-WG clearly outlined a verification suite
> along with the certification process...
>
> ... I know for a fact a number of people have volunteered to help out in
> various regards with the WG..... Yet to my knowledge no action has
> been taken here.

"Volunteering and DOING" are two different things. The APRSwg has noted over and overagain, that it will welcome submissions of efforts on the APRServe issues and here on the protocol test-suite..

> It is not the fact that no-one is offering to help, but that the
> whole process is in the twilight zone, at best.
> Or am I mis-informed here?

If someone is willing to "offer to help" then just "do it". Everyone, knows what needs to be done, how to do it, and what form it should take. It only takes someone to DO IT. If such a "volunteer" exists, then I am sure that his efforts will be greatly recognized... and soundly endorsed by the APRSwg...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 29 09:19:39 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA05372
for <lyris.aprsspec@tappr.org>; Thu, 29 Mar 2001 09:19:31 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 29 Mar 2001 10:19:15 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3490-2001.03.29-00.46.24--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-3548-2001.03.29-09.35.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10103290957520.18739-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 29 Mar 2001, Jeff King wrote:

> ...With any standards body, you need to have firm control of the
> protocol.... they ultimately have to be dictatorships. Personally, I'd
> rather see Bob grab it back then what we have now..... anarchy.
> <snip>
> ... I knew of far more qualified peoplet that had actually volunteered.
> And they were not accepted.

Volunteering means *doing something*, not filling a seat at a table.

> Part of volunteering for any project is having both the skills, interest
> and time to contribute...

You left off the most important point... "and doing it". There are
lots of people with the skills, and interest. The only proof of whether
they have the *time* is whether they DO SOMETHING or not.

I would far rather have a group of people that DO, than a committee of
kibitzers who only sit around and argue all day over opinions and do
nothing...

> If someone doesn't have the time to contribute, they should resign.

Similarly, if someone does not contribute anything, then they should not expect to be added to the WG..

I think the members of the WG have time to REVIEW and APPROVE an APRS Internet Spec and an TEST suite! But SOMEONE (I dont understand why this is so hard to understand) but SOMEONE has to put it on paper...

I agree completely with Steve. Anyone that puts all the APRServe ideas on paper or puts together a documented protocol test suite would be a PRIME CANDIDATE for addition to the WG! Such a person would be WELCOME!

> at least two well qualified people that volunteered to fill
> [Steve's] empty seat on the WG without a response from the WG.

Anyone can fill a seat. We want someone that CONTRIBUTES by DOING SOMETHING. Yes, we have had say a dozen volunteers. If we had accepted all of them we would have a rooom full of people and still not one single thing on the table to look at... Duh... whats wrong with this picture?

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 29 20:35:09 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA01863
for <lyris.aprsspec@tapr.org>; Thu, 29 Mar 2001 20:35:02 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3699-2001.03.29-20.51.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 29 Mar 2001 21:34:37 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3530-2001.03.29-07.38.47--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC3F0BD.3DA57D34@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob & Steve:

Responding to both your posts in one as they are basically the same thing. I also need to remind both of you that APRS Compliance is not the APRS internet protocol. The only reason the internet protocol was brought up was as a example, not the specifics here.

Steve Dimse wrote:

> >It is not mine to share. I just know otherwise. Being you are not
> >omnipresent,
> >I fail to see how you can dispute this. You'll just need to take my word
> >on it.
> >
> Sorry, I'm not about to do that. I want names, dates, places. Otherwise,
> I can only consider this unsubstantiated rumor.

Then that exactly what you will have to do.

> >> However, before I do something like
> >> this, I need to see someone accept the challenge, and do some serious
> >> work.
> >
> >You mean like Bill Diaz? He has put hundreds of hours into debugging and
> >writting
> >helper applicatiосn (and now AHUB) to fix protocol violations on APRSSERVE.
> >
> Bill's program is very useful to Windows users, and I'm not putting it
> down. But it is hardly the start of an internet protocol document.

The thread I was responding to was about APRS compliance, not the internet protocol document. You, like Bob, are not seeing the contributions people are making. This was simply a example of a contribution in response to your claim no serious work is being done. While it may not be to a Steve Dimse or Bob Bruninga level of competence, the claims both of your keep making that no-one is stepping forward are specious.

> APRServe and aprsd
> are not "a good start" on the Internet Protocol Document, are they?

Yes, they actually are. Take a look at WA4DSY's web page and the documentation. It lists all the suggested port numbers and some other useful information that didn't exist anywhere else. When I put together the outline I posted here some time back, I used this information in the outline as well as what I was able to glean off yourself.

<http://www.tapr.org/tapr/list-archive/aprsspec/0102/msg00024.html>

> Once again, TAPR has one vote out of seven.

I was talking about taking a leadership role for the betterment of packet radio, I was very clear about this. OK, here is a easier one for you:

Who are the seven votes? Roger Barker asked who the present members of the WG were some time ago, and met with silence. You apparently know, so who are they? I say the parrot is dead, what say thee?

> Again, AFilter, as good as it is, is an implementation of the APRS spec,
> not the Internet spec. The document is the hard part. Technical writing
> with clarity is very difficult. I can't do it, from what I seen neither
> can you.

What, did you review the paper(s) I did in my technical writing class or something?

I don't ever recall putting out a paper for publication that you would have seen. I did send you a outline draft (twice) of a internet spec, which I hoped you would comment on... is this your comment now? It was never intended to be a publication quality document, just to focus and stimulate discussion towards a goal, which it failed to do.

None-the-less, if you recall, the first cut of the APRS-SPEC was a far far cry from what we ended up with. If you keep seeking perfection, and running those down that don't meet you level of perfection, who will want to volunteer for the job?

> It is a specialized skill, one that is none-to-common.

Certainly. But in a volunteer organization, you need to take what you can get. Chasing those away that don't meet up with your standards seems counterproductive, if indeed your goal is to accomplish something.

Bob Bruninga wrote:

>

> On Thu, 29 Mar 2001, Jeff King wrote:

>

> > ... I knew of far more qualified people that had actually volunteered.

> > And they were not accepted.

>

> Volunteering means *doing something*, not filling a seat at a table.

Yes, it does... speaking of seats, does the APRS-WG still exist (beyond just yourself)?

> I would far rather have a group of people that DO, than a committee of
> kibitzers who only sit around and argue all day over opinions and do
> nothing...

Who is doing this? I'm seeing quite a few "do'ers" in the prior thread, which was my concern. While you may think of them as "kibitzers", I think if this title fits,
it is by no fault of their own.

A process was put into place and this group was created to address that process. If
the process (in the form of the APRS-WG) is defunct or has ceased to exist (like the
parrot), then your right, it is "kibitzing". But how are people to know this
unless
you, as the manager of this committee, can be honest with yourself?

IMHO, it seems to me you either fix the process, as was intended, or you simply
state the parrot is dead so we can go get a new parrot. If you watch any Monty
Python, it is a real simple concept to grasp.

> > If someone doesn't have the time to contribute, they should resign.

>

> Similarly, if someone does not contribute anything, then they should not
> expect to be added to the WG..

Certainly. So you feel alot of "non contributors" have volunteered to be on
the WG? Just so we are clear on things, I was stating those that are not
or cannot presently contribute should resign. What matters is now, not any
past accomplishments, although I agree this should be a metric in choosing
someone. But ultimately, the ones seated on the WG need to perform. This may
require "taking a chance" with someone, but if you have a understanding those
that don't perform will be asked to step aside, I don't see this as a big
risk.

> I think the members of the WG have time to REVIEW and APPROVE an APRS
> Internet Spec and an TEST suite! But SOMEONE (I dont understand why this

> is so hard to understand) but SOMEONE has to put it on paper...

If you are having problems understanding it, I suggest you review the WG charter. Things are spelled out very clearly there. But I think the parrot is dead. This is what is not being understood. We either need to give the parrot CPR, or bury it.

> I agree completely with Steve. Anyone that puts all the APRServe ideas on
> paper

That was last month although similar concept.

> or puts together a documented protocol test suite would be a PRIME
> CANDIDATE for addition to the WG! Such a person would be WELCOME!

OK, this is the thread you are responding to. This is what the charter has to say about that:

6. The Group will put a voluntary APRS certification process in place, to be managed by Bob Bruninga with Group oversight. The process will include a publicly available validation suite.

So in effect, this can survive the death of the APRS-WG with you still in control. And that was what I was saying, that a benevolent dictator is far better than anarchy.

I know that Bob Bruninga is not a ghost and I know you have a active interest in APRS. Your stepping up to the plate through thick and thin. All I am saying here is that to keep the illusion alive that the WG still exists is counterproductive and ultimately will cripple progress.

Quick questions, how many additions to the protocol have been made in the last two years as compared to the prior two years? Get me point now?

> > at least two well qualified people that volunteered to fill
> > [Steve's] empty seat on the WG without a response from the WG.
>
> Anyone can fill a seat. We want someone that CONTRIBUTES by DOING
> SOMETHING. Yes, we have had say a dozen volunteers. If we had accepted
> all of them we would have a rooom full of people and still not one single
> thing on the table to look at... Duh... whats wrong with this picture?

"Duh"?!? Alot is wrong with this attitude. Look at what you just said. A dozen volunteers have stepped up to the plate and volunteered. The two I know HAVE DONE SOMETHING. Yet you

assume none of them are worth anything. Maybe they are not up to Bob Bruninga or Steve Dimse standards, but the two I know are real players and know their stuff, and I fully expect the others are just as good. Yet here you are predicting the failure of these people. This attitude is what is wrong with this picture. Part of any volunteer groups charter should be to mentor new blood into a organization. Fact of the matter is, any successful volunteer organization does this. I'm not seeing this here and it explains alot.

Listen, we can go back and forth on this, but at the end of the day we will be worse off then when we started. Lets agree to disagree, OK?

To restate and retain focus as to my core thoughts:

I was reminding everyone that a formal process that once existed here no longer does. Hence the well thought out comments being made about the compliance suite could be wasted. I suggested that TAPR might be able to jump start that process, as they once did before....that doesn't appear to be in the cards. And lacking that or any similar effort, I thought it proper we declare the parrot dead so that its corpse would not get in the way of a new group being formed (not that it would.... just the ghost hanging around is a discouragement).

That is it.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 08:48:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA10393
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 08:48:25 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 30 Mar 2001 09:48:13 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3649-2001.03.29-17.46.26--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-3789-2001.03.30-09.04.34--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10103300946040.4030-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

For example of how difficult it is to get user input to the WG,
last week I requested inputs from anyone that is using any of the USER
DEFINED formats in the APRSspec. I was going to make a list that would
help everyone find unused combinations. Not one single response
from the SIG... And yet we know that there are lots out there...

So its not easy being on a WG, where no one submits useful work, and yet
everyone feels happy in complaining that no one else is doing anything...

Just a thought...
Bob

> > On Wed, 28 Mar 2001, Jeff King wrote:

> > > ... I know for a fact a number of people have volunteered to help out in
> > > various regards with the WG..... Yet to my knowledge no action has
> > > been taken here.

> > "Volunteering and DOING" are two different things. The APRSwg has noted
> > over and overagain, that it will welcome submissions of efforts on the
> > APRServe issues and here on the protocol test-suite..

> > > It is not the fact that no-one is offering to help, but that the
> > > whole process is in the twilight zone, at best.
> > > Or am I mis-informed here?

> > If someone is willing to "offer to help" then just "do it". Everyone,
> > knows what needs to be done, how to do it, and what form it should take.
> > It only takes someone to DO IT. If such a "volunteer" exists, then I am
> > sure that his efforts will be greatly recognized... and soundly endorsed
> > by the APRSwg...

> > de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 12:00:49 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27283
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 12:00:39 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 30 Mar 2001 13:00:20 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance (fwd)
Message-ID: <LYR11589-3846-2001.03.30-12.16.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10103301259520.16449-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

My appologies to the group. My comments about getting feedback from the
SIG was not intended to be a flame at all. Nor was it meant to condem all
the tremendous effort made by a whole lot of folks!

It was just a microcosmic look at the two simple APRSwg items that I am
trying to get finalized. 1) a list of TOCALLS and 2) a List of USER
defined formats.

Again, my apologies for my choice of words, I was probably subconsciously
reacting to all the flames pointed my way... while just trying to get
something done...

de WB4APR, Bob

On Fri, 30 Mar 2001, Bob Bruninga wrote:

> For example of how difficult it is to get user input to the WG,
> last week I requested inputs from anyone that is using any of the USER
> DEFINED formats in the APRSpec. I was going to make a list that would
> help everyone find unused combinations. Not one single response
> from the SIG... And yet we know that there are lots out there...
>
> So its not easy being on a WG, where no one submits useful work, and yet
> everyone feels happy in complaining that no one else is doing anything...
>
> Just a thought...
> Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 12:24:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA28396
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 12:24:38 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3847-2001.03.30-12.40.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 30 Mar 2001 13:24:13 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3789-2001.03.30-09.04.34--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC4CF4D.2A347C7F@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>

> For example of how difficult it is to get user input to the WG,
> last week I requested inputs from anyone that is using any of the USER
> DEFINED formats in the APRSSpec. I was going to make a list that would
> help everyone find unused combinations. Not one single response
> from the SIG... And yet we know that there are lots out there...

I know the feeling.... when I posted my draft outline on the APRS internet protocol, not a single person on the SIG commented on it. I even forwarded to one of the past players... not a peep. But it doesn't mean what you are doing is not needed, you just have to decide in you own mind the path you want to keep, and stick with it. Your doing the right thing.

Anyways, does the APRS-WG still exist? (as a group comprised of more then just yourself) Sorry to be so repetitive here, but I have asked this question twice of you now, with no response.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 12:32:03 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00104
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 12:32:02 -0600 (CST)
Date: Fri, 30 Mar 2001 19:25:12 +0100
Message-Id: <LYR11589-3849-2001.03.30-12.48.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: APRS Compliance
From: Carl Littlejohns <carlmailuk@yahoo.co.uk>
Reply-To: carlmailuk@yahoo.co.uk
Mime-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
In-Reply-To: <LYR13751-3789-2001.03.30-09.04.34--carl_mail#dr.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <VA.000000bf.194fe69d@study>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Be of good cheer Bob. You seem to be attempting to solve an UNproblem. :)

(and dont we owe you enough already??)

73Carl
GW0TQM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 12:55:41 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA01863
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 12:55:36 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 30 Mar 2001 13:55:16 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3847-2001.03.30-12.40.47--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-3850-2001.03.30-13.11.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10103301354540.16449-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 30 Mar 2001, Jeff King wrote:

> Anyways, does the APRS-WG still exist? (as a group comprised of more than
> just yourself) Sorry to be so repetitive here, but I have asked this question
> twice of you now, with no response.

Sure. Its members are as posted on the TAPR site.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 17:43:11 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25284
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 17:43:10 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3881-2001.03.30-17.59.21--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 30 Mar 2001 18:42:41 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <Pine.GSO.4.05L.10103301354540.16449-100000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC519F1.4727C88A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>

> On Fri, 30 Mar 2001, Jeff King wrote:

>

> > Anyways, does the APRS-WG still exist? (as a group comprised of more than
> > just yourself) Sorry to be so repetitive here, but I have asked this question
> > twice of you now, with no response.

>

> Sure. Its members are as posted on the TAPR site.

Sure what? That they still active or that there is a out of date member list on the

TAPR site that still lists members who have long since resigned? Be clear here please.

I wasn't asking if a paper list existed, I was asking if the WG was still viable. Viable

means actively meeting, setting goals, following the charter, having a puraility of

active members. You know, polly parrot is not dead and off pinning for the fjords.

If the WG is now only yourself, I personally think that is not a bad thing. We can get

some clarity and make some decisions. Use (or share the names of) some of those 12 volunteers to get the APRS compliance process going. Someone needs to record all the suggestions being made on the SIG... draw a outline up, start to fit the suggestions into that outline, Identify the testing conditions, ect. I'm sure

more then a few of the 12 people who volunteered to fill the empty seat(s) on the old WG would be happy to help. Heck, I'd even help a little if I knew I wouldn't be wasting my

time or having to herd cats. But I have taken on another APRS project more suited to my talents

so it would have to be limited. But I don't see this as a huge project anyways....the protocol

document is a great start. You and Mark have some test files. All that is really needed is

some direction and goals. Be it from you under the WG or if the WG has ceased to exist,

from some other project manager. But that could just as easily be you, if you so desire. I'd

vote for you. But I still feel reality needs to be acknowledged so we don't waste our time

serving ghosts.

So, is the APRS-WG viable?

Regardless of the answer to this question, if you and Mark Sproul could make available the

compliance test files both of you indicated you had, that would be a good start of something to build upon.

73

Jeff

>
> bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 21:19:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA10607
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 21:19:50 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 30 Mar 2001 22:19:39 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3881-2001.03.30-17.59.21--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-3909-2001.03.30-21.36.02--
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10103302214260.12712-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 30 Mar 2001, Jeff King wrote:

> > > Anyways, does the APRS-WG still exist?

> > Sure. Its members are as posted on the TAPR site.

>

> I wasn't asking if a paper list existed, I was asking if the WG was
> still viable. Viable means actively meeting, setting goals, following
> the charter, having a puraility of _active_ members. You know, polly
> parrot is not dead and off pinning for the fjords.

Sure. I just counted 157 Emails in the APRSWG of discussions regarding
all the things we are working on in the last 6 months. All members are
participating.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 30 22:15:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA15806
for <lyris.aprsspec@tapr.org>; Fri, 30 Mar 2001 22:15:01 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-3914-2001.03.30-22.31.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 30 Mar 2001 23:14:25 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-3909-2001.03.30-21.36.02--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AC559A1.312BE743@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

>> I was asking if the WG was still viable.

> Sure. I just counted 157 Emails in the APRSWG of discussions regarding
> all the things we are working on in the last 6 months. All members are
> participating.

Good. Can you post a status update on the list then? Who are the present members?
What is the next thing on the agenda? What are all the things you are working
on in the last 6 months? How can people help you out? Would you consider releasing
the test file(s) you mentioned the other day?

Thanks

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 31 10:58:05 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA11244
for <lyris.aprsspec@tappr.org>; Sat, 31 Mar 2001 10:58:03 -0600 (CST)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Sat, 31 Mar 2001 08:57:51 -0800

Message-ID: <LYR11589-3996-2001.03.31-11.14.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
In-Reply-To: <LYR11639-3914-2001.03.30-22.31.04--ke6afe#arrrl.net@lists.tapr.org>
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJAEBKDAAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff, did you mean to ask the WG _secretary_ to do that work for this
mailing list? hi
73, Cap KE6AFE

> -----Original Message-----
> From: Jeff King
> Sent: Friday, March 30, 2001 8:14 PM
> To: APRS Spec Discussion List
>
<snip>
> Good. Can you post a status update on the list then? Who are the
> present members?
> What is the next thing on the agenda? What are all the things you
> are working
> on in the last 6 months? How can people help you out? Would you
> consider releasing
> the test file(s) you mentioned the other day?
>
> Thanks
>
> -Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Mar 31 13:47:11 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA27862
for <lyris.aprsspec@tappr.org>; Sat, 31 Mar 2001 13:47:04 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-4011-2001.03.31-14.03.17--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 31 Mar 2001 14:46:35 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Files uploaded to TAPR server now available (APRSINET)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AC6341B.1DCC68A3@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The files I uploaded to the TAPR site are now available. (and I think they have been for some time, just didn't check till today)
They are:

aprsdDOC.htm (HTML docs for APRSD)
aprsdTCPportfunctions.htm (Port defines for APRSD)
aprsserve_dcc.html (Steve's original paper)
inetmsg.html (APRS messaging)
valid.html (User validation)
validation.c (C source code+ msg, which I should have called password.c)

and are located at: <ftp://ftp.tappr.org/aprssi/aprssi/aprstcp/>

Nothing new here, but it does get every file in one place, when before they were spread over various web sites and embedded in peoples e-mails. If anything is missing, drop it up there. You would send it to:

<ftp://ftp.tappr.org/aprssi/upload/>

and then drop a note to Larry Keeran, K9ORP @ aprs-lib@tappr.org letting him know the file is there and where to move it to.

These are the files I referenced in the draft outline I wrote up last month. It hasn't been moved over yet to a public area, but if you want to compare the files to the outline it is at:

<http://www.tapr.org/tapr/list-archive/aprsspec/0102/msg00024.html>

I'm of the mindset that 50% of something is better than 100% of nothing, you don't need to be a polished technical writer to help here or even write anything original. In my case I was just a packrat and dumped what ever files I had collected from other people. It might be useful to go through some of the Q&A on the groups as well, and drop HTML images of those messages in. I did briefly, but not exhaustively (the validation code came from one of the newsgroups).

I know Tim, Bill, Gerry and certainly others have written some fairly good outlines of their ideas.... you guys might want to go through some of your gems and using Lyris grab the HTML code and drop it in the FTP area. Note there is no compliance area at this time.... just the old spec area and the APRSINET area.... but if you ask Larry he can set that area up. I don't have anything for the compliance area.

73

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 31 14:06:37 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA00498
for <lyris.aprsspec@tapr.org>; Sat, 31 Mar 2001 14:06:35 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-4013-2001.03.31-14.22.50--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 31 Mar 2001 15:06:07 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AC638AF.E089CEB6@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Cap Pennell wrote:

>

> Jeff, did you mean to ask the WG _secretary_ to do that work for this
> mailing list?

Who is the present WG secretary? As I indicated to Bob, the charter on the TAPR site is now outdated. While I could ask the present secretary (if there is one), Bob is alive and kicking and should know the answers to what I asked in the message which you were replying to. In any case, all the questions I have asked have been on this list, so one would think all active and interested members of the WG would see them. They were again:

1. If a status report might be made on the APRS-WG.
2. Who are the present active members?
3. What things has the group been working on in the time period mentioned in the e-mails?
4. How can people on this list help out? (small and large things)
5. Would Bob and Mark consider releasing the text compliance files they use in their own software? (this would simulate and focus some of the work, and would be a good upload to a yet to be created compliance area on the TAPR ftp site)

I guess I didn't consider the above much "work" and even if it was, it was "work" that only could be accomplished by those on the WG. Seems like a sentence or two on each item might suffice. Do you have a problem with the questions I asked? I didn't think they were out of line, although I don't like having to be so pushy and repetitive here. I'm just of the opinion we need to be honest with ourselves if we ever hope to get anything accomplished in a timely fashion.

> hi

OK, I believe this is a CW term for humor. So, maybe I need to ask for a clarification as your question did seem serious to me.

Did I misunderstand your question?

Thanks

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 31 15:04:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA04291
for <lyris.aprsspec@tapr.org>; Sat, 31 Mar 2001 15:04:40 -0600 (CST)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Sat, 31 Mar 2001 13:04:28 -0800
Message-ID: <LYR11589-4017-2001.03.31-15.20.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11639-4013-2001.03.31-14.22.50--ke6afe#arrl.net@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJGECADAAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> -----Original Message-----

> From: Jeff King

> Sent: Saturday, March 31, 2001 12:06 PM

>

> Cap Pennell wrote:

> >
> > Jeff, did you mean to ask the WG _secretary_ to do that work for this
> > mailing list?
>
> Who is the present WG secretary?

The WG charter and protocol (aprs101.pdf) both list Stan WA1LOU as the WG secretary. As secretary of my local amateur radio club (a voluntary position), I find that I'm often asked to perform many tasks that nobody else wants to donate the time and effort to perform.

<snip>
> I guess I didn't consider the above much "work" and even if it was, it was
> "work" that only could be accomplished by those on the WG. Seems
> like a sentence
> or two on each item might suffice. Do you have a problem with the
> questions I
> asked?

No. I was only attempting to make light of the idea that you were asking someone (Bob) to perform a new set of tasks when the discussion here has recently been about whether there's someone who is willing and able to donate the time to perform similar work.

>
> > hi
>
> OK, I believe this is a CW term for humor. So, maybe I need to ask for a
> clarification as your question did seem serious to me.

Yes. Perhaps I should have used <GRIN> instead of "hi" as the mode we're using here is email instead of CW. Please forgive the colloquialism.

>
> Did I misunderstand your question?

A bit. I was only half-serious. The other half was just trying to inject a bit of ("smart-aleck") humour. Sorry.

> Thanks
>
> Jeff

73 ("Best Wishes!" in CW), Cap KE6AFE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 31 16:31:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA11046
for <lyris.aprsspec@tapr.org>; Sat, 31 Mar 2001 16:31:51 -0600 (CST)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-4022-2001.03.31-16.48.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 31 Mar 2001 17:31:17 -0500
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
References: <LYR22299-4017-2001.03.31-15.20.52--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AC65AB5.A3E8671A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Cap Pennell wrote:

> > Who is the present WG secretary?

> The WG charter and protocol (aprs101.pdf) both list Stan WA1LOU as the WG
> secretary. As secretary of my local amateur radio club (a voluntary
> position), I find that I'm often asked to perform many tasks that nobody
> else wants to donate the time and effort to perform.

I wasn't asking Stan to do any work nor am I assuming a document that is not
current is accurate. I'm sure he and other members, if they still are active
members of the WG read this list and are capable of speaking up if they have
something to add.

> <snip>
> > I guess I didn't consider the above much "work" and even if it was, it was
> > "work" that only could be accomplished by those on the WG. Seems
> > like a sentence
> > or two on each item might suffice. Do you have a problem with the
> > questions I
> > asked?

> No. I was only attempting to make light of the idea that you were asking
> someone (Bob) to perform a new set of tasks when the discussion here has
> recently been about whether there's someone who is willing and able to
> donate the time to perform similar work.

This are the tasks I suggested:

1. If a status report might be made on the APRS-WG.
2. Who are the present active members?
3. What things has the group been working on in the time period mentioned in the e-mails?
4. How can people on this list help out? (small and large things)
5. Would Bob and Mark consider releasing the text compliance files they use in their own software? (this would simulate and focus some of the work, and would be a good upload to a yet to be created compliance area on the TAPR ftp site)

Now, the question I have for you is how can a newcomer or someone not on the WG address these tasks? While Bob may not be the one to answer these mostly simple questions, I would think you would have to agree someone outside the WG could not, correct? Are these not fair requests?

>> Did I misunderstand your question?

> A bit. I was only half-serious. The other half was just trying to inject a
> bit of ("smart-aleck") humour. Sorry.

Hey, I am guilty of this as well. No need to be sorry, it should be me. It is good to step back. But I tried to tone down my dead parrot skit rhetoric in the last go around so maybe I was a bit too serious. ; -)

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 31 17:00:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA12649
for <lyris.aprsspec@tapr.org>; Sat, 31 Mar 2001 17:00:00 -0600 (CST)
From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Sat, 31 Mar 2001 14:59:47 -0800
Message-ID: <LYR11589-4023-2001.03.31-17.16.14--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11639-4022-2001.03.31-16.48.05--ke6afe#arrl.net@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <FIEAIFCMLKNIKJPNFHPJMECEDAAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff WB8WKA wrote:

<snip>

> Now, the question I have for you is how can a newcomer or someone
> not on the WG address
> these tasks?

They can't.

> While Bob may not be the one to answer these mostly
> simple questions, I would
> think you would have to agree someone outside the WG could not,
> correct? Are these not fair requests?

Correct. I think they are fair requests. If someone from the WG can, and

wants to, donate the time and effort to produce the answers to those questions and send them to this mailing list, they will.

<--... -->, Cap KE6AFE

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 31 18:02:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA17136
for <lyris.aprsspec@tapr.org>; Sat, 31 Mar 2001 18:02:45 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 31 Mar 2001 19:02:31 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-3914-2001.03.30-22.31.04--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-4027-2001.03.31-18.18.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10103311901160.1919-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 30 Mar 2001, Jeff King wrote:

> Good. Can you post a status update on the list then? Who are the present
members?
> What is the next thing on the agenda? What are all the things you are working
> on in the last 6 months? How can people help you out? Would you consider
releasing
> the test file(s) you mentioned the other day?

Sure, if I could find it. I suspect it was on a previous PC that has long

since crashed and burned. Maybe Mark still has his?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 1 09:33:16 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA23768
for <lyris.aprsspec@tappr.org>; Sun, 1 Apr 2001 09:33:15 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 1 Apr 2001 10:31:46 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
In-Reply-To: <LYR11586-4013-2001.03.31-14.22.50--
bruninga@nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-4154-2001.04.01-09.49.27--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10104011027380.12217-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 31 Mar 2001, Jeff King wrote:

> 2. Who are the present active members?

The current members are:

John Ackermann <jra@febo.com>
Bob Bruninga <bruninga@nadm.navy.mil>,
Keith Sproul <ksproul@rci.rutgers.edu>,
Mark Sproul <msproul@apmail.ap.org>,
Brent Hildebrand <BHildebrand@earthlink.net>,
Mike Musick <mcmusick@anet-stl.com>
Stan Horzempa
Steve Dimse - Resigned

Roger Barker, (UIview) invited but declined due to other priorities
Dale Heatherington (APRSd) invited but declined

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 1 13:48:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA13965
for <lyris.aprsspec@tapr.org>; Sun, 1 Apr 2001 13:48:28 -0500 (CDT)
Mime-Version: 1.0
X-Sender: msproul@mailbox.arn.net
Message-Id: <LYR11589-4191-2001.04.01-14.04.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 1 Apr 2001 13:48:13 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: MLSproul <msproul@arn.net>
Subject: [aprsspec] Re: APRS Compliance
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <p04330100b6ed25cc4602@[204.254.145.106]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I am in the process of making some text compliance files. These will
be a series of files and will probably be released as each is
completed and verified.

Maury

--

M. L. "Maury" Sproul, PE
Amarillo, TX
msproul@arn.net
W5UGQ

| 806-354-0306

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 1 14:19:28 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA15869
for <lyris.aprsspec@tappr.org>; Sun, 1 Apr 2001 14:19:25 -0500 (CDT)
Message-Id: <LYR11589-4201-2001.04.01-14.35.43--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Sun, 1 Apr 2001 15:19:11 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200104011919.MAA19284@gull.prod.itd.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 4/1/01 10:31 AM Bob Bruninga (bruninga@usna.edu) wrote:

> John Ackermann <jra@febo.com>
> Bob Bruninga <bruninga@nadn.navy.mil>,
> Keith Sproul <ksproul@rci.rutgers.edu>,
> Mark Sproul <msproul@apmail.ap.org>,
> Brent Hildebrand <BHildebrand@earthlink.net>,
> Mike Musick <mcmusick@anet-stl.com>
> Stan Horzempa
> Steve Dimse - Resigned
>

There is also a TAPR slot, occupied by Greg Jones.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 1 14:36:48 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA17304
for <lyris.aprsspec@tappr.org>; Sun, 1 Apr 2001 14:36:44 -0500 (CDT)

Mime-Version: 1.0
X-Sender: ksproul@vger.rutgers.edu (Unverified)
Message-Id: <LYR11589-4207-2001.04.01-14.52.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 1 Apr 2001 15:32:39 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Current Members
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <a0501044cb6ed32c12480@[165.230.133.70]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Mark's Sproul address is:

msproul@jove.rutgers.edu

The address listed for Keith Sproul is okay, but I would prefer:

ksproul@vger.rutgers.edu

Keith

--

Keith Sproul Ham Radio WU2Z
ksproul@vger.rutgers.edu 732 821-4828

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 1 16:09:58 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA25749
for <lyris.aprsspec@tapr.org>; Sun, 1 Apr 2001 16:09:53 -0500 (CDT)
Date: Sun, 01 Apr 2001 17:09:25 -0400
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Message-ID: <LYR11589-4232-2001.04.01-16.26.08--
lyris.aprsspec#tapr.org@lists.tapr.org>

In-Reply-To: <LYR11592-4201-2001.04.01-14.35.43--n8ur#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <2597454516.986144965@[192.168.1.26]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

--On Sunday, April 01, 2001 3:19 PM -0400 Steve Dimse <k4hg@tapr.org> wrote:

> On 4/1/01 10:31 AM Bob Bruninga (bruninga@usna.edu) wrote:

>
>> John Ackermann <jra@febo.com>
>> Bob Bruninga <bruninga@nadm.navy.mil>,
>> Keith Sproul <ksproul@rci.rutgers.edu>,
>> Mark Sproul <mssproul@apmail.ap.org>,
>> Brent Hildebrand <BHildebrand@earthlink.net>,
>> Mike Musick <mcmusick@anet-stl.com>
>> Stan Horzempa
>> Steve Dimse - Resigned
>>

> There is also a TAPR slot, occupied by Greg Jones.

>

> Steve K4HG

Greg resigned as the TAPR representative. I remain in the non-voting moderator slot, and have been speaking, but not voting, for TAPR in the interim. TAPR will be appointing a new representative to replace Greg.

John

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 16:20:14 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA14288
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 16:20:14 -0500 (CDT)
Message-ID: <LYR11589-5499-2001.04.07-16.36.34--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 07 Apr 2001 17:18:09 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS(tm) protocol allows for BEACONet variant
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3ACF8411.31D2EA70@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Now that the dust has settled on the "Protocol Compliance" thread (did anyone actually volunteer to do anything? <grin>), I wanted to be a "man of my word" and move the discussion of the BEACONet protocol here (at least the one that started on TAPR's APRS(tm) listserve).

I'll get right to the point: for those who choose to take the time to understand and research before expressing an opinion, they will find that BEACONet fits quite nicely into the existing APRS(tm) paradigm.

The BEACONet system was developed in such a way as to function in compliance with the APRS(tm) AltNET concept. Here's ALTNET's are: <http://www.dididahdahdidit.com/text/altnets.txt>

As an aside...APRSdos *will* decode BEACONet transmissions simply by invoking the following command: CONTROLS-FILTERS-OTHER to ON. This is noted at: <http://www.dididahdahdidit.com/text/protocol.txt>

Additionally, UI-View works for both BEACONet and APRS operation without needing to invoke/revoke any filtering.

According to the APRS Protocol Specification 1.0.1 (a 3MB file at <ftp://ftp.tapr.org/aprssi/aprssi/spec/aprs101/APRS101.pdf>):
Page 23 of 128...

"Generic APRS APRS uses the following generic beacon-style
Destination destination addresses:
Addresses AIR* ALL* AP* BEACON CQ* GPS* DF*

DGPS* DRILL* DX* ID* JAVA* MAIL* MICE*
QST* QTH* RTCM* SKY* SPACE* SPC* SYM*
TEL* TEST* TLM* WX* ZIP*

The asterisk is a wildcard, allowing the addresss to be extended (up to a total of 6 alphanumeric characters)."

Page 25 of 128...

"ALTERNATE NETS Any other destination address not included in the specific generic list or the other categories mentioned above may be used in ALTERNATE NETS (ALTNETs) by groups of individuals for special purposes."

A typical BEACONet frame looks like this:

W2EV>HY1G02-15:[FN03XD] w2ev@arrl.net
^^^^^^ ^^

|

This makes the frame look like an ALTNET to APRS software.

So...BEACONet stands as it originally was...an application of UI-Frame technology that:

- * can use APRS(tm) software (but doesn't have to)
- * operates within the APRS(tm) spec as an ALTNET
- * allows for experimentation and expansion on that spec without destroying it

If you think of APRS(tm) as being "Major League Baseball", then think of BEACONet as being "the farm club". Just don't go "calling up" any of the stuff we're developing without being prepared to trade us back enough to make it worth our while. :o)

Back to having fun...ya know...the eta-Aquarids meteor shower is just around the corner...and the spring/summer Tropo season is forming; anyone want to actually generate some RF? :o)

With a smile and a wink,
Ev Tupis, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 18:05:26 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA19824
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 18:05:25 -0500 (CDT)

Message-ID: <LYR11589-5505-2001.04.07-18.22.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 07 Apr 2001 19:03:37 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS TOCALL-SSID Help, please
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3ACF9CC9.8C477566@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

According to the APRS Protocol Specification:
(pg 23/128): "In all of these cases, the Destination Address SSID may
specify a generic APRS digipeater path."

(pg 25&26/128): A chart describing the "Generic Digipeating" noted
above.

Yet, when I launch a frame which includes this information, it is
ignored by all of the APRS digi's around me (even though I'm LOS to at
least three WIDEn-N digis).

My APRS frame looks like this:

W2AAA-2>APW248-3:=4310.21N/0 . . .

^

This infers WIDE3-3 from the protocol spec

Am I missing something about the use of this function?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 18:10:14 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20000

for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 18:10:12 -0500 (CDT)
Message-ID: <LYR11589-5508-2001.04.07-18.26.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 07 Apr 2001 19:07:59 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALL-SSID Help, please
References: <LYR21978-5505-2001.04.07-18.22.00--
w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3ACF9DCF.4DB231DB@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Correction...

My APRS frame looks like this:

W2AAA-2>APW248-3:=4310.21N/0 . . .
 ^

 This infers WIDE3-3 from the protocol spec

Yet, this is ignored by the WIDEn-N digi's in my area. Am I overlooking something about the use of this function?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 20:13:22 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA28463
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 20:13:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 7 Apr 2001 21:13:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS(tm) protocol allows for BEACONet variant (fwd)
Message-ID: <LYR11589-5520-2001.04.07-20.29.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GSO.4.05L.10104072111520.15990-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Your use of different TOCALLS for everyone in Beaconet is not a fixed string, thus it is not an ALTnet. Thus no Kenwood D7, or D700 user can listen in because the ALTnet which they might set iaw the APRSpec won't match but one user at a time. Thus, you exclude probably 10,000 users from monitoring your Beacon Net while traveling. Such exclusion to save one byte seems awfully drastic. More comments at end...

On Sat, 7 Apr 2001, Ev Tupis wrote:

> The BEACONet system was developed in such a way as to function in
> compliance with the APRS(tm) AltNET concept. Here's ALTNET's are:
> <http://www.dididahdahdidit.com/text/altnets.txt>

> According to the APRS Protocol Specification 1.0.1 (a 3MB file at
> <ftp://ftp.tappr.org/aprssid/aprsspec/spec/aprs101/APRS101.pdf>):
> Page 25 of 128...
> "ALTERNATE NETS Any other destination address not included in
> the specific generic list or the other categories
> mentioned above may be used in ALTERNATE NETS
> (ALTNETs) by groups of individuals for special
> purposes."

> A typical BEACONet frame looks like this:
> W2EV>HY1G02-15:[FN03XD] w2ev@arrl.net
> ^^^^^^ ^^
> This makes the frame look like an ALTNET to APRS software.

Yes, but only people who set their ALTnet to "HY1G02" will see it. If any letter changes, then it is a different ALTnet and will not be decoded by anyone operating IAW the Spec.

Yes, someone can set thier ALTnet to HY1G02, but he will only receive packets from that station only. Not anyone else in Beacon net unless

the station is identical in Power, Antenna, HAAT, Direction and Gain.

But there is no way for an ALTnet compliant APRS station to receive a packet from any other combination, without changing their entry.. Or disabling ALTnets entirely.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 20:16:00 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA28548
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 20:15:57 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 7 Apr 2001 21:15:45 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALL-SSID Help, please
Message-ID: <LYR11589-5521-2001.04.07-20.32.31--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10104072114100.15990-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This SSID DIGipeating feature was put in the Spec for the next generation of APRS (so that everything would be backward compatible when we moved to APRS Phase III.

It allows HOPS of up to 7 HOPS using the WideN-N protocol, but saves 7 bytes per packet by eliminating the DIGI field entirely... and only using the SSID as the number of hops.

I think only DIGIned and UIdigi and the other new digi codes support it yet. The Kenwood D700 digi mode also does... (hummmh, I forget. Ill have to look up how to do this)... Bob

Apr 2001, Ev Tupis wrote:

```
> According to the APRS Protocol Specification:
> (pg 23/128): "In all of these cases, the Destination Address SSID may
> specify a generic APRS digipeater path."

> Yet, when I launch a frame which includes this information, it is
> ignored by all of the APRS digi's around me (even though I'm LOS to at
> least three WIDEn-N digis).
>
> My APRS frame looks like this:
> W2AAA-2>APW248-3:=4310.21N/0 . . .
>           ^
>           This infers WIDE3-3 from the protocol spec
>
> Am I missing something about the use of this function?
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 21:07:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA00890
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 21:06:55 -0500 (CDT)
Message-ID: <LYR11589-5523-2001.04.07-21.23.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 07 Apr 2001 22:04:56 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALL-SSID Help, please
References: <LYR21978-5521-2001.04.07-20.32.31--
w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3ACFC748.E57AF64A@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob Bruninga wrote:

> This SSID Digipeating feature was put in the Spec for the next
> generation of APRS (so that everything would be backward
> compatible when we moved to APRS Phase III.

Gotcha. That explains why no one processed it. What's the plan for this feature? One would think that it ought to be supported by stand-alone digi's if it's going to be effective. Is there a movement afoot to get TNC firmware to support it?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 7 21:32:02 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA03192
for <lyris.aprsspec@tappr.org>; Sat, 7 Apr 2001 21:31:55 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-5524-2001.04.07-21.48.29--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 07 Apr 2001 22:31:10 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS(tm) protocol allows for BEACONet variant
References: <LYR22299-5499-2001.04.07-16.36.34--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <3ACFCD6E.2CA573D2@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev Tupis wrote:

>

> Now that the dust has settled on the "Protocol Compliance" thread (did
> anyone actually volunteer to do anything? <grin>),

Ev:

Yes, at least according to what I saw on here, 12 people had volunteered. However, it appears volunteers were not what was required (even though the old WG had requested them.... go figure?). Two people (outside of these volunteers) were asked to join the WG, and they both declined. Hence the spots still remain open and no direction or next step (at least published) has been set. So your guess is as good as mine.

It has been said, that if you do something, and submit it to the WG (this list?) some action will be taken. It has not been my personal experience this is the case, hence my feelings they had ceased to exist as a viable body. Granted, my contribution had been minor, but I am reluctant to make major contributions (to a spec document) with no feedback or in a vacuum, as had been suggested the current mechanism is. I suspect lacking such direction or feedback, the previous statement would apply to others as well.

My impression here is to just do what you want.... if you get sufficient user support it will be adopted via assimilation. A spec document is not a spec document without a compliance mechanism. So, your best bet here is just to get some user support for your BEACONNet extension, and write your own spec. Approach some of the authors requesting support for it (most seem more than happy to do this) and have at it. As to the entrenched incumbents such as Kenwood, I suspect if you get sufficient interest, they will adopt it. Not sure if BeaconNet is compatible with DX Clusters, but if not, you might consider this. The DX'ers, as a group, are not afraid to spend money. This is a language Kenwood understands.

Good luck

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 22:53:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA08646
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 22:52:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 7 Apr 2001 23:52:30 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALL-SSID Help, please
In-Reply-To: <LYR11586-5523-2001.04.07-21.23.26--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5530-2001.04.07-23.09.24--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10104072350360.18082-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 7 Apr 2001, Ev Tupis wrote:

> Bob Bruninga wrote:
> > This SSID Digipeating feature was put in the Spec for the next
> > generation of APRS (so that everything would be backward
> > compatible when we moved to APRS Phase III.
>
> Gotcha. That explains why no one processed it. What's the plan for
> this feature? One would think that it ought to be supported by
> stand-alone digi's if it's going to be effective. Is there a movement
> afoot to get TNC firmware to support it?

SO far we have only seen Digined and UIdigi and maybe some others? No, no big movement. For a closed net where someone has hundreds of mobiles and only a few digis, it really shortens packets and allows more users.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 23:14:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA09812
for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 23:14:36 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 00:14:02 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] A BeaconNet idea...
Message-ID: <LYR11589-5535-2001.04.07-23.31.04--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104080004550.18082-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In trying to find an APRS compliant protocol to do all the BeaconNet needs while still being SPEC compliant (and receivable on a Kenwood), I came up with this:

W2EV-xx>CQxxxx,HOP2-2:>GG##ggXX.....

It gives at least 7 bytes worth of special BEACONet information and the total cost is only ONE (1) more byte than the existing BeaconNet format. Here is how:

* FROM call SSID for one byte (1 of 16) or 2 bytes (1 of 10 & 1 of 5)

- * In the T0call, you can use 4 bytes (1 of 36 each)
- * In the GRID square report, you get 2 bytes
 - The first one (the TABLE or OVERLAY character can be 1 of 36
 - The second one (the ICON) can be one of about 90

These 7 or 8 bytes can convey a lot of info...

This is the preferred Gridsquare report format as written in the spec.

So I think that this format would give you a very powerful format for BEACONet packets that could be received by anyone, this includes:

- 1) Newbees who have no clue how APRS or anything else works, but if they tune to BEAOCNnet, they will see something without having to know "how" to set up their APRS software...
- 2) Kenwood mobile operators (remember the D700 tunes 6m, 2m, 220, 440, 900 and 1296 bands)...
- 3) Kenwood backpackers and QRP operators with only their HT's...

Although it would be nice to use ICONs that are meaningful, I don't care at all if you use any of the 90 icon symbols to mean anything you want in BEACONet. That is the kind of flexibility that APRS should be able to afford... And there are some un-used ICON definitions that we could possibly consider if you find that defining one or two more might make things really neat...

And the OVERLAY characters can be applied to ANY ICON, so it can be considered as a completely independent byte... again, though, it would be nice if it made visual sense in most cases...

Anyway, just an idea to let you get lots of info in a standardized way, into the shortest packet and still be receivable on all APRS stations.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 7 23:24:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA10264

for <lyris.aprsspec@tapr.org>; Sat, 7 Apr 2001 23:23:52 -0500 (CDT)
Message-ID: <LYR11589-5536-2001.04.07-23.40.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 00:21:52 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] D7/D700 and ALTNET [was:APRS(tm) Protocol Spec/BEACONet thing]
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3ACFE760.A5C8B797@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Wait wait. Please don't draw conclusions prematurely by inferring that a one byte space-saving is the sole reason behind the desire for BEACONet frames to be treated as an ALTNET. That is not correct. There are *many* reasons for doing so (I'll address them in a future eMail if this is a point that needs clarifying). Let's take one thing at a time.

Your reply hit the following topics:

- * Kenwood D7 and D700 don't have the ability to disable ALTNET filtering and therefore would be blind to this variation of the BEACONet protocol
- * A BEACONet T0-Call of "HY1G02-15" is a specific ALTNET unto itself and you said, "... only people who set their ALTnet to "HY1G02" will see it. If any letter changes, then it is a different ALTnet and will not be decoded by anyone operating IAW the Spec."

The flippant response to the second item would be "gee...you built-in the ability to turn off ALTNET filtering into APRSdos, why didn't you tell Kenwood to do the same thing?" :o) <-really intended as humor, not a flame...it's really nice that the filter-off function is in APRSdos.

- you know that APRSdos *will* decode BEACONet by turning off filters, and so will UI-View (natively, without the need to mess with anything). WinAPRS won't . . . but that's because it doesn't appear to follow the ALTNET spec at all...period.
- since the BEACONet T0-Call information appears to work on two major APRS software titles, the discussion turns to the Kenwoods

```

*** The rest of this includes interests of the BEACONet community ***
*** and is a bit lengthy. Please read it to get a better insight ***
*** to the interests that are being addressed, rather than simply ***
*** assuming that APRS(tm) interests are one-size-fits-all.      ***
*** In a nutshell the text below will discuss:                    ***
*** + The dilemma of "backwards compatibility"                    ***
***   - A contrast of APRS and BEACONet digipeating needs as an ***
***     example of a tough decision that is related to the dilemma***
*** + The need to include certain information in the T0-Field ***
***   in order to meet the needs of the BEACONet community      ***
***   - A very good reason it should be in the T0-Field, from ***
***     perspective of BEACONet operation                        ***

```

As for the D7 and D700 implementation... this is a variation of a larger issue: how much "backward compatibility" does one offer when developing new systems? This is a tough one to put one's arms around...especially when the "old stuff" is still being actively marketed. There is a fine line between a manageable leap in technology and an unmanagable one (one wonders if OS/2 would have been more successful, had IBM sat on it until now -- but I digress). :-)

This is the same issue that had to be delt with when determining just how important it was to use **only** TRACEn-N digipeating (exclusively) in the BEACONet service. That would mean that only Kantronics KPC-model TNC's with ROM 8.2 or above could be used for stand-alone digi's (though I've been told that the new UIDIGI firmware may support it now).

Given that tracing RF paths is a core BEACONet need, the decision was made to do just that. We couldn't take the risk of someone putting a non-call substituting, channel-flooding alias on the frequency (imagine even an inadvertant WIDE,WIDE,WIDE in a world-wide collision domain...ouch!).

So...back to the limitations of the D7 and D700. If BEACONet-ers used the (very valid) variation of the protocol that started with CQ, instead of HY, I'm hearing that they would be able to decode the packet correctly (even though [GR##ID] is marked as obsolete in the spec)?

Then the question becomes...how important is "HY" to a BEACONet frame (W2EV>HY1G02-15:[FN03XD] w2ev@arrl.net)? HY is a frequency designator. H=HF (3-30 MHz) and Y=the 26th segment from 3-MHz (the scale runs 0,A,B,C,D,...Z) which is 28-MHz -- in this case. Launching a BEACONet frame as CQ1G02-15 is fully allowed in the APRS spec (and allowed in the BEACONet spec), but there would be a loss of "band-of-origination" information.

Here is the thought-tree on this topic:

* The long range hope is that BEACONet will take on a following

of it's own with an audience that may not necessarily be APRSers today (DXers and testers)

- * It would be advantageous to establish an APRServ-like Internet service in the near future (maybe AHost?)
- * There is no frequency-of-origination flag in the APRS protocol specification and no way to separate frames by frequency once they are collected by APRServ...so all frames go on the same map
- * A screen full of icons on a map means very little to the BEACONet service if band-information can't be parsed out (hmmm...which band is responsible for the propagation? <smile>)

At this stage of BEACONet experimentation...I'd say that the answer is "yes", it *is* important to embed frequency in *every* transmission; even if that leaves "10,000" D7/D700 users out of the loop for decoding the transmissions of others. They bought their transceivers for APRS...which is where they will continue to work.

Given that the TO-FIELD goes out with 7-bytes consumed whether you use them all or only "CQ" (that's the AX.25 spec), putting it there seems to make a ton of sense.

Of course, this all may change by the time this BEACONet stuff either matures or fizzles out entirely.

Well, I've started and stopped this eMail several times and it's now midnight. I hope it didn't come through as too choppy. I'm going to bed. The twins wake up at 7 without regard as to how late I stay up. :o)) Thanks to anyone who decided to take the time to read through this eMail and understand the interests being addressed.

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 00:38:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA21565
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 00:38:31 -0500 (CDT)
Message-ID: <LYR11589-5542-2001.04.07-00.55.05--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 01:36:29 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] The moving target [was:A BeaconNet idea...]
References: <LYR21978-5535-2001.04.07-23.31.04--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3ACFF8DD.9A85E86F@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga said:

> In trying to find an APRS compliant protocol to do all the
> BeaconNet needs while still being SPEC compliant (and
> receivable on a Kenwood), I came up with this:
>
> W2EV-xx>CQxxxx,HOP2-2:>GG#/#ggXX.....

((by the way, before I Bob's email in full perspective ... neither "band of origination" nor "antenna pointing vector" information appears to be contained in the suggestion above...so it hardly begins to meet "all the BeacoNet needs"))

Bob is sharing a note with the listserve that he shared with me privately last week -- and I replied to. I'm saddened that he did so, as I'd have preferred to not air this topic to the list. Unfortunately, the note can't go unreplied to.

My reply to him included "human engineering" issues that included *two* times during the development of BEACONet in which I attempted to keep up with a spec that changed just as I reached a publication deadline and the discouragement that it engendered.

- "Space Mode" used to exist in APRS-dom. When invoked, the grid was placed in the To-Field to save transmission time (hmmm...the same reasons for BEACONet's wanting to do it that way).

Just as I was going to roll this out for PropNET (as BEACONet was called back then)...the spec changed to antiquate it in favor of [GG#/#gg] in the comment field.

- I quickly re-wrote the article that I was working on (QST of November 1999) and resubmitted it for publication. This was no small task...as anyone who has ever written an article

knows...and inadvertantly left out a very important item that proved to be devastating (FULLDUP ON for for Meteor Mode in a manually-configured WinAPRS Leonids station) as a result of the rush to rewrite. Bob later wrote to the listserve something about "maybe next time the meteor effort could be better done".
arghhhhhhh!

Discouraged from the work that had to be redone, I took some time to "regroup" around the new concept of [GG##gg] and continued developing.

- [GG##gg] is no longer in favor, but it is now >GG##ggxxx....
Oh...my...gawd! Guess what? Watch out for May's QST...it's already gone to press. (I'm leaving out a lot of detail of my conversation with him and the wg around getting them to *not* abandon [GG##gg], by the way)

I've done my best to follow this APRS moving target, but at some point I've got to say "enough is enough". BEACONet is a cousin to the APRS service. The APRS spec shows [GG##gg] as obsolete, and the BEACONet service has adopted it. Get over it for now and move on.

If the APRS service wants BEACONet to be fully compliant, then someone is going to have to work to address the issues of the BEACONet service -- as a user of the BEACONet service...not through the eyes of the APRS service as the two services have different needs.

Until then, authors of software that decodes UI-frame packets are encouraged to build-in BEACONet parsing of To-Field information and reap the rewards of marketing to a whole new group of UI-Frame packet users to which the APRS service does not cater.

Evhen Tupis, W2EV

I'm going to bed...maybe the morning light will melt the grumpies away.
:o)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 07:39:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA18888
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 07:39:28 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sun, 8 Apr 2001 08:39:09 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: D7/D700 and ALTNET [was:APRS(tm) Protocol Spec/BEACONet thing]
In-Reply-To: <LYR11586-5536-2001.04.07-23.40.27--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5588-2001.04.08-07.56.02--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104080806180.22788-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Apr 2001, Ev Tupis wrote:

> Please don't draw conclusions that a one byte space-saving is the sole
> reason behind the desire for BEACONet frames to be treated as an ALTNET.

I have shown how you can fit all of the same data in a fully APRS spec compliant packet and it only takes one more byte, so the conclusion seems inescapable?

> - since the BEACONet T0-Call information appears to work on two
> major APRS software titles, the discussion turns to the Kenwoods

Yes, two out of say a dozen?

> *** In a nutshell the text below will discuss: ***
> *** + The dilemma of "backwards compatibility" ***
> *** + The need to include certain information in the T0-Field ***

I see no reason why it must be in the T0field and make the packet non-APRS compliant when there are other places to put it.

> For the D7 and D700... how much "backward compatibility" do [we need?]
> If BEACONet.. started with CQ, instead of HY,... they would be able to
> decode the packet... [but loose all "frequency Band information"]
> Then the question becomes...how important is "HY" to a BEACONet frame
> (W2EV>HY1G02-15:[FN03XD] w2ev@arrl.net)? HY is a frequency designator.

put it in one of the other 8 "free" bytes I pointed out in my proposed solution. There are all kinds of places to put it...

> * There is no frequency-of-origination flag in the APRS protocol

Each packet has as many free bytes as you want. One can put anything in any of the free bytes in any APRS packet. Anyone can decode them to mean anything they want... without violating the spec. I am all for adding such a designation for this application, but just not in a place that makes the packets non-compliant.

> * A screen full of icons on a map means very little to the BEACONet
> service if band-information can't be parsed out (hmmm...which band

The BAND information and sub-band information should go in the ICON and OVERLAY characters. Then a quick glance at any BEACONnet map would instantly convey that information. Here's how:

Choose as many ICONS as you need for all of the bands (there are 90). Then use the 36 overlay characters for the sub-band. Any author then that supports BeeacoNET would parse out BAND and FREQ info from those bytes and do anything you want with them. The ICONS don't have to make sense. It's just that those bytes are "free" to use for conveying this information.

* At this stage of BEACONet experimentation...I'd say that the answer is
* "yes", it *is* important to embed frequency in *every* transmission;

And I agree 200%. Just don't put it in a place where it violates the spec and makes BEACONet non-compliant with APRS and locks out thousands of users.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 07:57:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA20425
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 07:57:24 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 08:57:12 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: The moving target [was:A BeaconNet idea...]
In-Reply-To: <LYR11586-5542-2001.04.07-00.55.05--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-5596-2001.04.08-08.14.00--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10104080840190.22788-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 8 Apr 2001, Ev Tupis wrote:

> > In trying to find an APRS compliant protocol to do all the
> > BeaconNet needs while still being SPEC compliant (and
> > receivable on a Kenwood), [Bob] came up with this:
> >
> > W2EV-xx>CQxxxx,HOP2-2:>GG#/#ggXX.....

> Neither "band of origination" nor "antenna pointing vector" information
> appears to be contained in the suggestion above...so it hardly begins to
> meet "all the BeaconNet needs"))

Huh? There are 8 bytes you can do anything with! and I listed them.
in my original proposal:

xx in the FROM call
xxxx in the TOCALL
XX in the Grid format. <== This is where I would put FRQ/BAND info

> Bob is sharing a note with the listserve that he shared with me
> privately last week -- and I replied to. I'm saddened that he did so,
> as I'd have preferred to not air this topic to the list....

I thought we brought this to the APRSspec list for open discussion?
It was a message I sent to you. Not one you sent to me. So I don't think
it is any violation of etiquette to re-post my suggested format here...

Ev, you seem to think I am working against you. Far from it. I LOVE the
BeaconNet concept and am more than willing to do anything I can to make it
popular and a great service. To that end, I am trying to help make sure

it is decodable by everyone, not just the few people who go out and get special software...

You mentioned the QST article as the main reason why you dont want to change. Yet only 2 authors currently support BeaconNET (and I am one of them). This raises some interesting points if you did change to an APRS compliant format at some time in the future:

- 1) Both those authors would release a new version overnight. End of problem.
- 2) ALL other existing APRS software would instantly be BEACOnet capable... End of problem.
- 3) All Kenwood mobiles would be able to monitor BeacoNET anytime, anywhere... End of problem.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 08:38:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22615
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 08:37:59 -0500 (CDT)
Message-ID: <LYR11589-5602-2001.04.08-08.54.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 09:35:58 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Other BEACOnet interests to factor [was:D7/D700 and ALTNET
[was:APRS(tm) Protocol]]
References: <Pine.GS0.4.05L.10104080806180.22788-100000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <3AD0693E.D7ACA0D3@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> > Please don't draw conclusions that a one byte space-saving is
> > the sole reason behind the desire for BEACONet frames to be
> > treated as an ALTNET.
>
> I have shown how you can fit all of the same data in a fully APRS
> spec compliant packet and it only takes one more byte, so the
> conclusion seems inescapable?

ok...I'll explain it again...

If one is truly interested in finding a good solution to your dilemma, then one will need to take the time to understand the broader BEACONet interests and address them too. As with any system, items become interrelated. One cannot simply offer a solution to one item and walk away, as it may introduce other problems elsewhere. That is the case here.

An additional related item is described here:

<http://go.to/BEACONet> | Information | Contest and RadioSport Use

As one reads over the information, key-in on the last item in the information chart. BEACONet enjoys an alias called RFONLY (although it isn't expressed within that text...the concept is). It is an explicit instruction to not IGate (remember...it's *not* about privacy). UI-View processes the alias correctly and APRSdos doesn't IGate (yet another reason why both of these titles are supported in the BEACONet world).

By taking BEACONet out of the world of the ALTNET something else happens:

- * RFONLY becomes an issue because now all other APRS programs can decode it a BEACONet frame...and they don't recognize the RFONLY alias

The astute observer will have two comments:

- "No one can guarantee that some third party won't IGate a signal anyway, even with the alias"

- "It's not the testers' fault if someone else relays the information"

As for the first statement...while that is true, the chances of it happening are _significantly_ reduced by using a system that is primarily supported by products that behave as needed (an analogy would be the fact that I can write software to digipeat a frame, even if it

does not contain a digipeat alias...but no one does).

As for the second statement...Dan Henderson (Contest Manager at the ARRL) has come right out and said "the use of packet is prohibited" (exact quote) in ARRL VHF contests. It took _considerable_ effort to educate him that DXCluster Spots are different than is simplex, non-digipeated UI-Frame packet. Even then, I'm not sure he truly got it. I'm not willing to introduce other software that ignores RFONLY, given that history.

So...back to my original statement:

> > Please don't draw conclusions that a one byte space-saving is
> > the sole reason behind the desire for BEACONet frames to be
> > treated as an ALTNET.

Here's another. Help us to find a win-win solution.

By the way...I'm subscribed to the list...there's no need to cc: the thread to me directly, too.

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 08:48:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22949
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 08:48:46 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 09:48:32 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: The moving target [was:A BeaconNet idea...]
In-Reply-To: <LYR11586-5542-2001.04.07-00.55.05--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5603-2001.04.08-09.05.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104080923000.23360-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Apr 2001, Ev Tupis wrote:

Bob Suggested:

```
> > W2EV-xx>CQxxxxx,HOP2-2:>GG##ggXX.Z.....  
>  
> Neither "band of origination" nor "antenna pointing vector" information  
> appears to be contained in the suggestion above...
```

The "XX" in the GRID format above is for ICON and OVERLAY character. I would assign your FREQ BANDS to ICONS as shown below, and then use the 36 overlay characters for your frequency sub band information...

BANDS	FREQS	ICON
----	-----	-----
X	3-30 KHz	The diamond
L	30-300Khz	The Lighthouse
M	.3-3 MHz	The tall Radio Antenna
H	3-30 MHz	The existing HF ICON
V	30-300MHz	A VHF Icon (Ill find one)
U	.3-3 GHz	The existing QTH with a Beam
S	3-30 GHz	The existing dish antenna
E	30-300THz	The alternate "E" Icon.

Then not only do your packets contain this detailed info, but they also visually convey this information at a glance...

You could put the Beam Heading in the SSID. or add one character. (The "Z" I added above)

But if you reserved the TO_CALL SSID for SSID routing, then you could actually shorten ALL BeaconNET packets by 7 bytes! You would be eliminating the "HOP2-2" bytes entirely (saving 7 bytes) and then use the SSID (-2) as originally intended for routing. The disadvantage of this is that the KPC-3 does not support SSID routing yet, but Uiview does (or could).

That is why I hate to mess up SSID routing which you could use in the future to great advantage by using the SSID now just to save one byte. So I would probably suggest that you add one character for beam direction. (With the potential of saving 6 in the future)...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 08:55:42 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA23306
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 08:55:34 -0500 (CDT)
Message-ID: <LYR11589-5604-2001.04.08-09.12.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 09:53:45 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Overlooked Interests - Free Bytes? [was:D7/D700 and ALTNET
[was:APRS(tm) Protocol Spec/BEACONet]]
References: <Pine.GSO.4.05L.10104080806180.22788-100000@arctic>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD06D69.C994577F@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> > - since the BEACONet TO-Call information appears to work on two
> > major APRS software titles, the discussion turns to the Kenwoods
>
> Yes, two out of say a dozen?

The interest was to find a software title that would run on most
people's computers, that would meet the interests of the BEACONet
community. These two titles will take care of 90% of the worlds
computers (DOS and Windows). I'm not sure of your point...but the
interest is being met.

The next point that you made keyed back in on the use of the "HY"
frequency designator, rather than "CQ". First...let me say that I'm
giving some serious thought to that...given the potential of embedding
the frequency into the icon overlay (I've got more exploration to do,

though). But another statement makes me think that you are still overlooking another BEACONet interest:

```
> > * There is no frequency-of-origination flag in the APRS protocol
>
> Each packet has as many free bytes as you want. One can put
> anything in any of the free bytes in any APRS packet. Anyone
> can decode them to mean anything they want... without violating
> the spec. I am all for adding such a designation for this
> application, but just not in a place that makes the packets
> non-compliant.
```

There is a BEACONet interest in assuring the shortest human-readable frame. If you are inferring that there are 256 "free bytes" to choose from, then you are missing the point.

In fact...the *only* "free bytes" that exist in an AX.25 packet frame are the ones in the To-Field and any unused bytes in path aliases. All others consume space. The *only* "free bytes" in a BEACONet comment field are the "[]" around the grid...and we included them only because APRSdos requires the "["! (see...there can be concessions <smile>).

Have I missed something?

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 09:07:16 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24104
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 09:07:12 -0500 (CDT)
Message-ID: <LYR11589-5605-2001.04.08-09.23.46--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 10:05:20 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: The moving target [was:A BeaconNet idea...]
References: <LYR21978-5596-2001.04.08-08.14.00--
w2ev@rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD07020.B6C57A16@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> > Bob is sharing a note with the listserve that he shared with me
> > privately last week -- and I replied to. I'm saddened that he did so,
> > as I'd have preferred to not air this topic to the list....
>
> I thought we brought this to the APRSpec list for open discussion?

Actually, I didn't mean to infer any violation of etiquette...no offense was taken. I intended to simply say "we've already talked about this issue and it has been taken into consideration (for further research)...why is it out there again?"...It's probably simply a difference of style, nothing more.

I also hope that others don't think this is an adversarial <sp?> thing. Nothing could be further from the truth. I'm committed to the BEACONet thing, and am indebted to others for their work and to you for your interest in it.

I'm simply making sure that the interests of the BEACONet community are addressed in any future modifications, if they are made...that's all.

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 11:10:21 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA02793
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 11:10:15 -0500 (CDT)
Message-ID: <LYR11589-5622-2001.04.08-11.26.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 12:07:55 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] More BEACONet interests [was:The moving target [was:A BeaconNet idea...]]
References: <LYR21978-5603-2001.04.08-09.05.20--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AD08CDB.7A39C6FA@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm going to parrot back what I understand about your suggestion:

> W2EV-xx>CQxxxx,HOP2-2:>GG##ggXX.Z

W2EV-##>CQnpah,HOP2-2:>GG##ggIO.V

```

||      ||||      |||||
||      ||||      |||||+-- Beam Vector--+
||      ||||      |||||+-- what's this?+--2-bytes for V maybe?
||      ||||      |||||+--- Overlay for the icon (27 needed)
||      ||||      |||||+---- Icon (8 needed)
||      ||||      ++++++----- 6-character grid
||      |||+-- H.A.A.T.
||      ||+--- Antenna Contribution (element count or dBd)
||      |+---- Power Output (1mW to 32MW)
||      +----- Network Personality (Digi, Bridge, Gate, etc)
++----- SSID to allow for multiple occurrences of same call
```

Now...to be clear...your suggestion wastes three bytes entirely:
CQ conveys nothing of use to BEACONet
TO-Call -SSID goes unused...but is still transmitted as a byte.

I like the icon idea, but there is another interest being driven here, too. Because BEACONet is a "network sniffer for UI networks" it is just as important to know the network personality visually, as it is to know the band of origination. Since "n" exists in the BEACONet protocol, it was hoped to use that as the driver for the Icon, rather than frequency of operation. I'm going to play with the icon idea a bit to see what I get (there may be another variation to the theme that could work).

In case anyone cares..."n" is described in the BEACONet protocol specification on the website: [http://go.to/BEACONet | Information | Protocol](http://go.to/BEACONet%20Information).

Other issues still remain. I've spelled them out in other eMails and would be interested in your thoughts on addressing them as part of the package.

By the way...SSID routing is useless to BEACONet...WIDEn-N doesn't allow the tracing that we really need. There is no advantage to is...it will always be a wasted byte.

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 15:15:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA18892
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 15:15:34 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 16:15:24 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Other BEACONet interests to factor [was:D7/D700 and ALTNET
[was:APRS(tm) Protocol]]
In-Reply-To: <LYR11586-5602-2001.04.08-08.54.26--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5653-2001.04.08-15.32.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104081603070.28954-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Apr 2001, Ev Tupis wrote:

> BEACONet enjoys an alias called RFONLY...
> In taking BEACONet out of the ALTNET world something else happens:
> * RFONLY becomes an issue because now all other APRS programs can

```
> decode a BEACONet frame...and they don't recognize the RFONLY
> alias
>
> The astute observer will have two comments:
>     "No one can guarantee that some third party won't IGate a
>     signal anyway, even with the alias"
>     "It's not the testers' fault if someone else relays the
>     information"
```

This is a good point. But I am a little confused.

If the non-standard ALNET construct allows you to be isolated from any other inadvertant APRS software from IGATING your packets, then that would seem to be sufficient in itself to solve the problem of RFONLY routing. So why then is the RFONLY alias needed? (I do think RFONLY alias is also a very good idea too.)

Does this mean that all BEACONet packets have the RFONLY alias in them at the cost of 7 bytes per packet?

You do have a very valid point about not wanting conventional APRS software in use by a non-fully-understanding user to link your BEACONet packets worldwide back to RF... Lemme think about that some.... I'd like to find a single bit somewhere that can do that much more efficiently...

Lemme think about this...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 15:36:54 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19961
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 15:36:50 -0500 (CDT)
Message-ID: <LYR11589-5659-2001.04.08-15.53.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 16:34:59 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Other BEACONet interests to factor [was:D7/D700 and
ALTNET [was:APRS(tm) Protocol]]
References: <LYR21978-5653-2001.04.08-15.32.10--
w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD0CB73.8A37232A@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> > BEACONet enjoys an alias called RFOONLY...
> > In taking BEACONet out of the ALTNET world something else happens:
> > * RFOONLY becomes an issue because now all other APRS programs can
> > decode a BEACONet frame...and they don't recognize the RFOONLY
> > alias
> >
> > The astute observer will have two comments:
> > "No one can guarantee that some third party won't IGate a
> > signal anyway, even with the alias"
> > "It's not the testers' fault if someone else relays the
> > information"
>
> This is a good point. But I am a little confused.

RFOONLY is invoked only by stations that are engaged in VHF Contests.
Otherwise, "24/7" BEACONet stations may launch frames with either HOPn-N
or nothing. RFOONLY is an option to satisfy the needs of the
Contesting/DX Chasing BEACONet community, not a requirement for all
BEACONet-ers.

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 8 15:52:44 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21116
for <lyris.aprsspec@tappr.org>; Sun, 8 Apr 2001 15:52:39 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 16:52:24 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More BEACONet interests [was:The moving target [was:A BeaconNet idea...]]
In-Reply-To: <LYR11586-5622-2001.04.08-11.26.43--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5680-2001.04.08-16.09.14--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104081625530.28954-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 8 Apr 2001, Ev Tupis wrote:

> By the way...SSID routing is useless to BEACONet...WIDEn-N doesn't allow
> the tracing that we really need. There is no advantage to is...it will
> always be a wasted byte.

Hummh... conversly, I am beginning to see it as a neat future
for BEACONet. Here is how:

- 1) Using -n instead of HOPn-N saves 7 bytes in every single packet
- 2) This does not need to be a WIDEn-N implementatin. On BEACONet, you can define that all such -n packets will be digipeated as TRACEn so that they include their path.
- 3) Since UIview uses KISS mode, ROger could code this into UIview overnight. Also, since the UIDIGI firmware also supports SSID routing, I am sure that its author would be happy to also make this possible. UI-DIGI roms will fit in any of the millions of old TAPR-2 CLONES. Also, any old 286 PC with any TNC and DIGI-NED software also supports SSID routing...
- 4) We can also include the RFONLY flag in a single bit. Here's how:

SSID ROUTING FOR BEACON NET:

```
if SSID is 0 then no digipeating
if SSID is 1 to N then digipeat and add digipeaters MYCALL (TRACEn)
```

if SSID is 10 to 1N then subtract 10 and digipeat as above
but consider this packet as an RFONLY packet.

Thus BEACONet can save 7 bytes in every packet,
It retains an RFONLY flag
It retains a TRACEn-N mechanism
It LEADS the APRS community in using this valuable routing method
It will allow TAPR-2 CLONE TNC's using UI-DIGI firmware to be used
for beacon net without the expense of KPC-3's for everyone...

This would be a long term goal. It sort of depends on how many Beaconnet users use KPC-3's, how many use TAPR-2 clones, and how many use UIVIEW? I admit it would be a transition, but until the transition was complete, then HOPn-N could continue to be used... and still be compatible.

Actually it saves 14 bytes if you consider that you no longer need the RFONLY alias either...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 16:39:54 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23027
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 16:39:51 -0500 (CDT)
Message-ID: <LYR11589-5692-2001.04.08-16.56.26--
lyris.aprsspec@lists.tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 17:37:58 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More BEACONet interests [was:The moving target [was:A BeaconNet idea...]]
References: <LYR21978-5680-2001.04.08-16.09.14--
w2ev@rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD0DA36.DFEAA45@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> > By the way...SSID routing is useless to BEACONet...WIDEn-N
> > doesn't allow the tracing that we really need. There is no
> > advantage to it...it will always be a wasted byte.
>
> Hummh... conversly, I am beginning to see it as a neat future
> for BEACONet. Here is how:
>
> 1) Using -n instead of HOPn-N saves 7 bytes in every single packet
> 2) This does not need to be a WIDEn-N implementatin.

But Bob...the APRS Protocol Specification (page 26 of 128) expressly
says that ToCall SSID routing is WIDEn-N and WIDE. You're not proposing
that BEACONet deliberately tool-up in opposition to the spec, are you?
;-)

Chuckling just a little,
Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 16:52:42 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23767
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 16:52:38 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 17:52:28 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More BEACONet interests [was:The moving target [was:A
BeaconNet idea...]]
In-Reply-To: <LYR11586-5692-2001.04.08-16.56.26--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5693-2001.04.08-17.09.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10104081749370.777-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Apr 2001, Ev Tupis wrote:

> > Hummh... conversly, I am beginning to see it as a neat future
> > for BEACONet. Here is how:
> >
> > 1) Using -n instead of HOPn-N saves 7 bytes in every single packet
> > 2) This does not need to be a WIDEn-N implementatin.
>
> But Bob...the APRS Protocol Specification (page 26 of 128) expressly
> says that ToCall SSID routing is WIDEn-N and WIDE. You're not proposing
> that BEACONet deliberately tool-up in opposition to the spec, are you?
> ;-)

I thought you might noctice that. But the difference is that these packets are still decodable by everyone. This modification to what is in the spec is a non-exclusive "enhancement". In ANY WIDEn-N digi, it has alwasys been a SYSOP prerogative to enable path tracing in a closed net if he likes...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 17:03:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA24866
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 17:03:00 -0500 (CDT)
Message-ID: <LYR11589-5694-2001.04.08-17.19.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: kbrown@powerhouseproductions.com (Kevin Brown)
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR22300-5693-2001.04.08-17.09.14--
kbrown#powerhouseproductions.com@lists.tapr.org>
Subject: [aprsspec] More BEACONet interests [was:The moving target [was:A

BeaconNet idea...]]
Date: Sun, 8 Apr 2001 16:59:47 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01f701c0c077\$3a3d21e0\$08db0ecf@187th.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Maybe I'm the only one...but since this thread appears to be between the two of you...any chance you could actually email one another direct? I haven't seen anyone else reply/interject on this subject..

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 17:04:07 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25433
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 17:04:02 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-5695-2001.04.08-17.20.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 18:03:40 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Other BEACONet interests to factor [was:D7/D700 and
ALTNET [was:APRS(tm) Protocol]]
References: <LYR21978-5653-2001.04.08-15.32.10--
w2ev#rochester.rr.com@lists.tapr.org> <LYR22299-5659-2001.04.08-15.53.26--
jeff#aerodata.net@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD0E03C.A5492CE5@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev Tupis wrote:

>
> > > BEACONet enjoys an alias called RFONLY...
clip
> > This is a good point. But I am a little confused.
>
> RFONLY is invoked only by stations that are engaged in VHF Contests.

FYI, AFILTER and I believe UI-View both support "NOGATE" already which effectively does the same thing. (keeps the RF gateway from sending the frame on to the internet).

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 17:37:27 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA28887
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 17:37:21 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 8 Apr 2001 18:37:10 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More BEACONet interests [was:The moving target [was:A BeaconNet idea...]]
In-Reply-To: <LYR11586-5694-2001.04.08-17.19.31--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-5698-2001.04.08-17.53.58--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10104081834030.1526-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 8 Apr 2001, Kevin Brown wrote:

> Maybe I'm the only one...but since this thread appears to be between the two
> of you...any chance you could actually email one another direct? I haven't
> seen anyone else reply/interject on this subject..

Interesting. Ev was acused of developing BEACONet protocols without open public discussion of the protocol and thus it evolved as non APRS compatible. He brought it here to have a public discussion of how BEACONet can or cannot fit into the APRS protocol. I thought that was what this list was for?

Just hit DEL key if you are disinterested...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 8 19:11:45 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA04977
for <lyris.aprsspec@tappr.org>; Sun, 8 Apr 2001 19:11:42 -0500 (CDT)
Date: Sun, 8 Apr 2001 19:11:27 -0500
Message-Id: <LYR11589-5713-2001.04.08-19.28.14--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] NMEA 0183 checksum spec
X-IPAddress: 206.9.220.135
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200104090011.TAA31189@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can someone please point me in the direction of a document describing the NMEA 0183 checksum and how it is calculated? Sample code?

-James Jefferson

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 20:50:35 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA09675
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 20:50:31 -0500 (CDT)
Date: Sun, 8 Apr 2001 20:50:24 -0500
Message-Id: <LYR11589-5719-2001.04.08-21.07.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Here's how NMEA 0183 checksum is calculated
X-IPAddress: 206.9.220.135
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200104090150.UAA06493@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(from Garmin's website - and verified by numerous other sources)
Q. How is the checksum calculated in NMEA 0183?

A. The checksum is the 8-bit exclusive OR (no start or stop bits) of all characters in the sentence, including the "," delimiters, between -- but not including -- the "\$" and "*" delimiters.

The hexadecimal value of the most significant and least significant 4 bits of the result are converted to two ASCII characters (0-9, A-F) for transmission. The most significant character is transmitted first

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 8 21:37:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA12801
for <lyris.aprsspec@tapr.org>; Sun, 8 Apr 2001 21:37:23 -0500 (CDT)
Message-ID: <LYR11589-5724-2001.04.08-21.53.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 08 Apr 2001 22:35:15 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Cause and Effect...from the Horses Mouth
References: <LYR21978-5698-2001.04.08-17.53.58--
w2ev@rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AD11FE3.81BC9E4F@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Interesting. Ev was acused of developing BEACONet protocols
> without open public discussion of the protocol and thus it
> evolved as non APRS compatible. He brought it here to have
> a public discussion of how BEACONet can or cannot fit into
> the APRS protocol. I thought that was what this list was for?
>
> Just hit DEL key if you are disinterested...

* The BEACONet protocol was opened to public scrutiny on TAPR's
PropNET/BEACONet listserve. It was also discussed with Bob B.
during development. It has never been "without open public

discussion". Check the list archives. The topic is there.

- * Since the "Cause" is inaccurate, how can the "effect" of "thus it evolved as non APRS compatible" be defended? Never the less, it was said ...
 - From an APRS perspective (which is what this seems to be), the BEACONet system operates as an ALTNET (to the letter of the APRS protocol spec). Ok...so maybe it's a *bunch* of ALTNET's, but it *is* fully compliant with the spec on ALTNETs.
- * I brought the discussion here because I wanted to clear the general APRS listserve of it (it had nothing to do with general APRS). I never said that it was here to see how it "can or cannot fit into the APRS protocol".

Now...for a recap of the thread up to this point...this discussion was engaged because Kenwood radios don't have a function to disable ALTNET filters...therefore BEACONet was proclaimed by Bob as "non APRS compatible".

A secondary discussion ensued as to how to reformat the BEACONet frame to allow Kenwood to decode them...but then the tables turned. Bob found out that APRS(tm) protocols, network topologies and procedures were not BEACONet(tm) compatible (I *hate* when that happens). :o)

Bob's giving this further thought.

I think that pretty much sums it up so far. :o) This thread can continue on or off list...it makes no nevermind to me. I'm learning some good things to *maybe* incorporate in the next revision of the BEACONet protocol spec and lurking folks are being given an insight into APRS's cousin that they may not have previously had.

And again for the record...there is no personal affront intended by me nor taken by me with any of this discussion. The BEACONet concept was based on experimentation...that's what we're doing. A year from now, the experiment may be over and all that may be left is my satisfaction of "doing" rather than "dreaming"...then again... :o))

Ev

<http://go.to/BEACONet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 9 06:03:05 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA26089
for <lyris.aprsspec@tappr.org>; Mon, 9 Apr 2001 06:03:00 -0500 (CDT)
Message-ID: <LYR11589-5794-2001.04.09-06.19.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 09 Apr 2001 07:01:07 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Non-exclusive Enhancement? [was: More BEACONet interests
[was:The moving target [was:A BeaconNet idea...]]]
References: <LYR21978-5693-2001.04.08-17.09.14--
w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD19673.403E5817@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

After suggesting that TOCALL SSID routing be setup to use TRACEn-N
instead of WIDEn-N and Wide, Bob Bruninga wrote:

> > But Bob...the APRS Protocol Specification (page 26 of 128)
> > expressly says that ToCall SSID routing is WIDEn-N and WIDE.
> > You're not proposing that BEACONet deliberately tool-up in
> > opposition to the spec, are you? ;-)
>
> I thought you might notice that. But the difference is that
> these packets are still decodable by everyone. This modification
> to what is in the spec is a non-exclusive "enhancement". In ANY
> WIDEn-N digi, it has always been a SYSOP prerogative to enable
> path tracing in a closed net if he likes...

I've searched the APRS Protocol Specification on the key words of
"exclusive", "enhance" and "modification" and come up dry. Where can I
get more information on the topic of "modifications that are allowed
because they are considered non-exclusive enhancements"?

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 9 20:38:15 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA29756
for <lyris.aprsspec@tapr.org>; Mon, 9 Apr 2001 20:38:14 -0500 (CDT)
Message-ID: <LYR11589-5930-2001.04.09-20.54.51--
lyris.aprsspec@lists.tapr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: More BEACONet interests [was:The moving target
[was:A BeaconNet idea...]]
Date: Mon, 9 Apr 2001 21:42:26 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B9001A94903@SHPMAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I for one... want to see this kind of exchange ... especially since it
involves APRS SPEC... if I get a vote.. I say EV and Bob... please
continue... Each exchange furthers my knowledge about the spec.....

ALOHA
AH6LS

> Maybe I'm the only one...but since this thread appears to be between the
> two
> > of you...any chance you could actually email one another direct? I
> haven't
> > seen anyone else reply/interject on this subject..
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Apr 11 15:17:16 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA12612
for <lyris.aprsspec@tappr.org>; Wed, 11 Apr 2001 15:17:07 -0500 (CDT)
Mime-Version: 1.0
X-Sender: mcmusick@mail.anet-stl.com
Message-Id: <LYR11589-6309-2001.04.11-15.33.46--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 11 Apr 2001 14:50:53 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Mike Musick <mcmusick@anet-stl.com>
Subject: [aprsspec] From APRSSIG - proposal for modified object format
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <p04310101b6fa644aade1@[207.206.136.32]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Recap: Jeff Brenton suggested that we look at a way to create objects that expire. This week's rash of springtime storms underscored a serious need for self-deleting objects to automatically clear the display of obsolete, superseded or otherwise out-of-date objects.

The proposed protocol consists of adding a expiration time to the comments field, like so:

```
;CELL1 *092345z4903.50N\07201.75W[088/036/EXP=0090
```

This, of course, says that the CELL1 wall cloud object moving east at 36 Knots expires 90 minutes after 2345z on the 9th. Field is in minutes and must have all four digits; "9999" minutes is 81 minutes shy of one week, so this gives us a good practical range.

The user interface default value should be relatively short - 30 to 60 minutes is a good start for discussion. There is no default in the on-air packet - the value is always specific. "/EXP=0000" is immediate expiration and is illegal; an object with no expiration should not have the /EXP= parameter.

This has maximum backwards compatibility (i.e., doesn't break anything) and is human-readable when it isn't supported by the receiving program.

By expressing the time as a time-out value rather than an end time

means a lot less work for the parser. We've already parsed the 092345z, so the expire day and time is simply 092345z + 90 minutes.

What we need now is to hear from anyone who might think of a compatibility problem we haven't seen yet so we can get hopefully get quick agreement to "just do it".

...mike/N0QBF

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Apr 11 16:00:17 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA14390
for <lyris.aprsspec@tapr.org>; Wed, 11 Apr 2001 16:00:14 -0500 (CDT)
Message-Id: <LYR11589-6325-2001.04.11-16.16.51--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 11 Apr 2001 16:01:27 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] [aprssig] Re: From APRSSIG - proposal for modified
object format
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sad47fe6.078@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA14390

Is it necessary to have "/EXP="? I don't believe anything else uses 4 zeros "0000" so you may be able to tack it on the back 088/036/0000 of the report. It appears the other extensions use 3 zeros "000" at this location i.e. bearing/number/range/quality. Check for a "0" instead of a "/".

On the other hand "/EXP=" is pretty easy to search for.

What about "/E=" which is similar in format to the "/A=" parameter for altitude?

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Apr 11 16:07:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15621
for <lyris.aprsspec@tapr.org>; Wed, 11 Apr 2001 16:07:56 -0500 (CDT)
Mime-Version: 1.0
X-Sender: mcmusick@mail.anet-stl.com
Message-Id: <LYR11589-6331-2001.04.11-16.24.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
In-Reply-To: <Pine.GS0.4.05L.10104111624040.28551-1000000@arctic>
References: <Pine.GS0.4.05L.10104111624040.28551-1000000@arctic>
Date: Wed, 11 Apr 2001 16:08:24 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mike Musick <mcmusick@anet-stl.com>
Subject: [aprsspec] Re: From APRSSIG - proposal for modified object format
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <p04310102b6fa77f34c8f@[207.206.137.24]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 4:24 PM -0400 4/11/01, Bob Bruninga wrote:

>Only remaining question is whether the /EXP= is floating. I assume so.
>and all 5 of those charactetrs must be an exact match...

Unless there's a really pressing reason not to, I'd answer "yes".

...mike

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 12 01:48:03 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA02143
for <lyris.aprsspec@tapr.org>; Thu, 12 Apr 2001 01:48:00 -0500 (CDT)
Date: Thu, 12 Apr 2001 1:47:39
Subject: [aprsspec] Re: [aprssig] Re: From APRSSIG - proposal for modified
object format
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Jeff Brenton" <ka9vnm@dididahdididit.com>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-6423-2001.04.12-02.04.39--
lyris.aprsspec@tapr.org>
Precedence: bulk

> what about "/E="

Short, consistent, to the point...

And "/E=xxxx" leaves two extra characters for the comment field.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 12 02:47:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA05416
for <lyris.aprsspec@tapr.org>; Thu, 12 Apr 2001 02:47:39 -0500 (CDT)
Message-ID: <LYR11589-6425-2001.04.12-03.04.18--
lyris.aprsspec@tapr.org>
Date: Thu, 12 Apr 2001 08:46:40 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Ian Wade <ian.wade@netro.co.uk>
Reply-To: Ian Wade <wadei@ntlworld.com>
Subject: [aprsspec] Re: [aprssig] Re: From APRSSIG - proposal for modified object
format

References: <LYR23375-6423-2001.04.12-02.04.39--ian.wade#netro.co.uk@lists.tappr.org>
In-Reply-To: <LYR23375-6423-2001.04.12-02.04.39--ian.wade#netro.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <\$cEyWjAg1V16Ew0m@netro.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR23375-6423-2001.04.12-02.04.39--ian.wade#netro.co.uk@lists.tappr.org>, Jeff Brenton <ka9vvnv@dididahdidit.com> writes
>> what about "/E="

>

>Short, consistent, to the point...

>

>And "/E=xxxx" leaves two extra characters for the comment field.

And two fewer characters liable to corruption. (And you don't really need the "=" either).

The shorter the packet the better.

--
73
Ian, G3NRW
g3nrw@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 12 07:12:19 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA25345
for <lyris.aprsspec@tappr.org>; Thu, 12 Apr 2001 07:12:15 -0500 (CDT)
From: Rolf Bleher <mail@Rolf-Bleher.de>
Reply-To: mail@Rolf-Bleher.de
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: From APRSSIG - proposal for modified object format
Date: Thu, 12 Apr 2001 14:10:51 +0200

Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-6447-2001.04.12-07.29.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
X-Sender: 320093807643-0001@t-dialin.net
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01041214105103.01164@terra>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> >Only remaining question is whether the /EXP= is floating. I assume so.
> >and all 5 of those charactetrs must be an exact match...
>
> Unless there's a really pressing reason not to, I'd answer "yes"

I think it's a good solution, but why not using
/D=1234 for duration 1234 minutes, or
/X=1234 for expires in 1234 minutes

It's a little bit shorter...

Rolf

--

```

Rolf Bleher      DK7IN      /
N52d32.660' E013d20.920' / Linux - life is too short for reboots
                        /      http://www.Rolf-Bleher.de
                        /      mail@Rolf-Bleher.de
-----/
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 12:32:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA29652
for <lyris.aprsspec@tapr.org>; Fri, 13 Apr 2001 12:32:28 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6705-2001.04.13-12.49.07--

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 13 Apr 2001 13:31:40 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billdiaz@megsinet.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AD737FC.F3DD2468@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bill:

I'm copying this to APRSSPEC as well since some of the APRS authors there are already discussing it.

I believe Bob's algorithm was based on picking a second of the minute to beacon on. It was seeded with your callsign. He would have posted it a few weeks before Dayton, not sure if it was last year or the year before. This required no changes to anyones software, it just required you to set the clock on your computer or sending device.

Coordinated time slots would be best as you suggested, but it requires a internet connection. We actually discussed this before.... the way you solve it is to have two granulates for the devices beaconing. You can pack the devices on the internet second by second where as the mobile devices you assign in a different segment (as far away (in time) as possible).

Basically, the mobile devices could send in the last 30 seconds of the minute, where as the internet connected devices could send in the first 30 seconds. You'll still have some collisions (as it is only a 50/50 chance the mobile will have his time set

correctly to hit that last 30 seconds) but at least it will help somewhat.

Also, what will help alot is to STOP beaconing the first time you see your packet repeated. You could calculate sat rise and sat set, and only beacon until you are heard during each interval. A server could handle this as well.

-Jeff

Bill Diaz wrote:

>

> Don't recall the algorithm Bob described.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 12:39:49 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00354
for <lyris.aprsspec@tapr.org>; Fri, 13 Apr 2001 12:39:47 -0500 (CDT)
Message-ID: <LYR11589-6710-2001.04.13-12.56.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 13 Apr 2001 13:37:44 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD73968.345488C7@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> I believe Bob's algorithm was based on picking a second of the
> minute to beacon on.

Wouldn't that infer one-minute beaconing through the ISS? I was under the impression that folks were attempting to avoid that if possible.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 12:53:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA01365
for <lyris.aprsspec@tapr.org>; Fri, 13 Apr 2001 12:53:41 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6719-2001.04.13-13.10.06--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 13 Apr 2001 13:52:49 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AD73CF1.A8D63BBB@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev Tupis wrote:

>
> > I believe Bob's algorithm was based on picking a second of the
> > minute to beacon on.
>
> Wouldn't that infer one-minute beaconing through the ISS? I was under

> the impression that folks were attempting to avoid that if possible.

No. Second of the chosen minute. Could be once a minute,
or once every 10 minutes. Lacking a centralized slot server, you need a
universal random method to chose the second of the minute to send on as
well as beacon frequency, whatever it might be for ISS.

In any case, I'm not telling anyone how to do anything. Don't have any
interest myself in beaconing through ISS. Just recalling a
similar discussion regarding beaconing at Dayton which also dealt with
hidden terminals.

-Jeff

>
> Ev, W2EV
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 13 12:57:36 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA01627
for <lyris.aprsspec@tappr.org>; Fri, 13 Apr 2001 12:57:33 -0500 (CDT)
Message-ID: <LYR11589-6720-2001.04.13-13.13.11--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 13 Apr 2001 13:53:46 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tappr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tappr.org>
<3AD73CF1.A8D63BBB@aerodata.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD73D2A.D51A5B80@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Jeff King wrote:

>
> Ev Tupis wrote:
> >
> > > I believe Bob's algorithm was based on picking a second of the
> > > minute to beacon on.
> >
> > Wouldn't that infer one-minute beaconing through the ISS? I was under
> > the impression that folks were attempting to avoid that if possible.
>
> No. Second of the chosen minute.

Ahh. I misunderstood. Thanks.

Regards,
Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 13 13:11:50 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA02821
for <lyris.aprsspec@tappr.org>; Fri, 13 Apr 2001 13:11:49 -0500 (CDT)
Message-Id: <LYR11589-6724-2001.04.13-13.28.24--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: dvanhorn@mail.cedar.net

Date: Fri, 13 Apr 2001 13:11:08 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
In-Reply-To: <LYR11608-6719-2001.04.13-13.10.06--dvanhorn#cedar.net@lists.tapr.org>
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.2.7.2.20010413130919.00aecf00@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>No. Second of the chosen minute. Could be once a minute,
>or once every 10 minutes. Lacking a centralized slot server, you need a
>universal random method to chose the second of the minute to send on as
>well as beacon frequency, whatever it might be for ISS.

How is this different, in a practical sense, from just turning on a
transmitter with a fixed beacon rate, at some arbitrary time?

What happens if I'm sharing a "slot" with an alligator?

--

Dave's Engineering Page: <http://www.dvanhorn.org>
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 16:19:44 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA17635
for <lyris.aprsspec@tappr.org>; Fri, 13 Apr 2001 16:19:39 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6756-2001.04.13-16.36.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 13 Apr 2001 17:19:27 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billdiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tappr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tappr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD76D5F.FC77A37A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Dave:

David VanHorn wrote:

>
> >
> >No. Second of the chosen minute. Could be once a minute,
> >or once every 10 minutes. Lacking a centralized slot server, you need a
> >universal random method to chose the second of the minute to send on as
> >well as beacon frequency, whatever it might be for ISS.
>
> How is this different, in a practical sense, from just turning on a
> transmitter with a fixed beacon rate, at some arbitrary time?

It is no different. Yet explain to me, lacking any formal specification, how you would insure that this is indeed arbitrary? Humans are not random, and the point of the posting I referenced to was some human pseudo code for insuring this randomness. I believe the callsign was used as the random seed (for the slot that the beacon occurred in) and some beacon rate was pre-agreed upon.

The point here, is that if you assume humans are random, when it comes to numbers, you'll end up with bunching. They are not random.

> What happens if I'm sharing a "slot" with an alligator?

I begin to wonder when someone asks a question they already know the answer to, in particular when they are not an attorney. Of course it won't work if someone decides to ignore the rules of the road. If you think what I was suggesting won't work, just say that. It won't hurt my feelings in particular since it wasn't even my idea (although I do agree it is a good idea, your pessimism may be closer to reality).

My only reason for posting was to mention Bob B. had came up with a pseudo algorithm some years back for the Dayton Hamfest. It *might* apply here. Because the search engine on the TAPR Lyris site is broken, I was unable to post a link to the message.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 16:47:28 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA19727
for <lyris.aprsspec@tapr.org>; Fri, 13 Apr 2001 16:47:24 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 13 Apr 2001 17:47:12 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
In-Reply-To: <LYR11586-6756-2001.04.13-16.36.28--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-6763-2001.04.13-17.04.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10104131722560.15255-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Another answer might have been that sharing a slot with an aligator is not that bad. Even if he has 10 dB more power (500 to your 50w) then at many times through the pass due to all the other variables going on, sooner or later, you are going to be 10 dB stronger and he is going to be 10 dB worse. Bingo, you get in...

> > What happens if I'm sharing a "slot" with an alligator? >

Jeff wrote:

> I begin to wonder when someone asks a question they already know the
> answer to, in particular when they are not an attorney. Of course it
> won't work if someone decides to ignore the rules of the road. If you
> think what I was suggesting it won't work, just say that. It won't hurt
> my feelings in particular since it wasn't even my idea (although I do
> agree it is a good idea, your pessimism may be closer to reality).
> -Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 13 19:31:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA00193
for <lyris.aprsspec@tapr.org>; Fri, 13 Apr 2001 19:31:00 -0500 (CDT)
Message-Id: <LYR11589-6790-2001.04.13-19.47.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Fri, 13 Apr 2001 19:15:52 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <LYR11608-6756-2001.04.13-16.36.28--dvanhorn#cedar.net@lists.tapr.org>
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tapr.org>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>It is no different. Yet explain to me, lacking any formal specification,
>how you
>would insure that this is indeed arbitrary? Humans are not random, and the
>point of the posting I referenced to was some human pseudo code for
>insuring this randomness.

Algorithms aren't random either.
The best you can approach is "difficult to predict", and "evenly
distributed".

>The point here, is that if you assume humans are random, when it comes to
>numbers,
>you'll end up with bunching. They are not random.
>
>
> > What happens if I'm sharing a "slot" with an alligator?
>
>I begin to wonder when someone asks a question they already know the answer to

I was wondering if anyone had implemented/suggested a method to handle that.

--
Dave's Engineering Page: <http://www.dvanhorn.org>
Where's dave? <http://www.findu.com/cgi-bin/find.cgi?kc6ete-9>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Apr 13 20:07:31 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA03393
for <lyris.aprsspec@tappr.org>; Fri, 13 Apr 2001 20:07:31 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6799-2001.04.13-20.24.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 13 Apr 2001 21:07:11 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billdiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tappr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tappr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tappr.org>
<4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD7A2BF.58E0FEEC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

David VanHorn wrote:

>

> >Humans are not random, and the
> >point of the posting I referenced to was some human pseudo code for
> >insuring this randomness.
>
> Algorithms aren't random either.

No, they are not. That is why you need to chose a seed number that is random.
Maybe use the checksum of your callsign as the seed number (or some combination
of the unique letters in your callsign).

> The best you can approach is "difficult to predict", and "evenly
> distributed".

EXACTLY. Evenly distributed is the key here. Still no where near as good
as some sort of assigned slotting system, yet better than the bunching and
anarchy when folks are left to their own choices.

> > > What happens if I'm sharing a "slot" with an alligator?

> I was wondering if anyone had implemented/suggested a method to handle that.

The FCC rules define that fairly well. Minimum power needed for communications.
I would think into a pair of crossed dipoles, 5 watts would be plenty.

It is really hard to enforce morality. If someone runs 500 watts (20db more than
is needed) then all they care about is themselves. I don't have a solution for
that one other than to decline to participate in a RF power war, if that is what
it
is becoming. Anyways, ISS is long term so the congestion will clear out in due
time
after the novelty factor wears out. Then some useful applications can be deployed.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 03:13:59 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA06292
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 03:13:49 -0500 (CDT)
Message-ID: <LYR11589-6854-2001.04.14-03.30.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 14 Apr 2001 09:13:06 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tapr.org>
<4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
<LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR13460-6799-2001.04.13-20.24.12--
roger#peaksys.co.uk@lists.tapr.org>

MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <rtGp1xASaA26Ewnm@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In article <LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists.tappr.org>, Jeff King <jeff@aerodata.net> writes
[snip]

>

>EXACTLY. Evenly distributed is the key here. Still no where near as good
>as some sort of assigned slotting system, yet better then the bunching and
>anarchy when folks are left to their own choices.

What I don't understand in this discussion is why anyone thinks that bunching of transmissions will occur in the current situation, because surely anarchy is inherently random? Could someone explain to me the mechanism that is going to cause the bunching?

As far as I can see, the only advantage of assigned slots would be that if you say to someone, for example, "transmit on second 37", then you're also telling them to transmit no more than once a minute.

Also, I'm not so sure that the long periods of silence from ISS are as a result of it being held off by uplink traffic. If it was, then I would expect to see it spew out a whole bunch of frames when eventually it got in, but I haven't seen any evidence of that at all. What I do notice is that it seems much easier to access it when it's at a very low elevation than when it's at a high angle, and that certainly isn't because of the antennas I'm using. Could this be as a result of the position of the 2m antenna on ISS?

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 14 14:28:52 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA00325
for <lyris.aprsspec@tappr.org>; Sat, 14 Apr 2001 14:28:52 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6911-2001.04.14-14.45.38--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 14 Apr 2001 15:28:26 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billdiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tappr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tappr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tappr.org>
<4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
<LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists.tappr.org>
<LYR22299-6854-2001.04.14-03.30.35--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3AD8A4DA.A754F84F@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Roger Barker wrote:

>
> In article <LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists
> .tappr.org>, Jeff King <jeff@aerodata.net> writes
> [snip]
> >
> >EXACTLY. Evenly distributed is the key here. Still no where near as good
> >as some sort of assigned slotting system, yet better then the bunching and
> >anarchy when folks are left to their own choices.
>
> What I don't understand in this discussion is why anyone thinks that
> bunching of transmissions will occur in the current situation, because
> surely anarchy is inherently random? Could someone explain to me the
> mechanism that is going to cause the bunching?

I'll try.

Every so called "random number" algorithm, at least the ones I have worked with in computers, really isn't random. You need a seed number to at least give it the chance of being random. Bob had suggested the seed number, in his post some time ago, as being the persons callsign or some combination.

You also need a standard algorithm to plug that random seed number into, be it a computer algorithm or human pseudo code. The "algorithm" in this case could define power levels, when to beacon, when a beacon is successful, how often to beacon, ect. The random element in the last paragraph is to insure even distribution of the transmissions.

Bunching is a known human behavior. One can see it in many forms.... the desire to pick a "round" number, working 9-5, rush hour, bidding on auctions, waiting until ISS is about to rise above the horizon to turn the beacon on. Doesn't matter the reason, it is just human behavior when most of us are left to our own means or lacking any pseudo code (etiquette) to guide us.

Anarchy is NOT random although in its earliest stages it may appear that way. Anarchy means the lack of any central control or group cooperation. However, anarchy is not a stable system. As a behavior system, be it human or political, it has a very short half life. As it progresses, its behavior becomes less and less random as it moves towards a organized system. In the political arena, we have periods of anarchy, however they typically don't last long. Local chieftains gain power over the local population due to some power they might have a monopoly on. Soon after that, further consolidation occurs. This is born out time and time again in history.

This same behavior model could be transposed to ham radio. Even though most radio regulatory bodies in most countries state to use the minimum power required, sales of HF amplifiers are brisk. The HF DX pile-ups are a good example of local chieftains rising to power. The station with the biggest antenna and biggest amplifier will get the contact. Even though in many cases the station with 10 watts and a dipole easily could make the contact, they are unable to compete against the powerhouse station.

In ISS we could have the same situation. Certain stations could beacon once every 10 seconds. Certain stations could run 500 watts when 5 watts would work. The stations that can afford 500 watt amps and don't see a problem with frequency beacons become the local "chieftain". To compete against the chieftain, you have to raise your power level and/or your beacon rate. Lacking any psedo-code, we have a anarchical system. A true anarchical system is unstable, hence local chieftains will arise.

With some assurance of random distribution, and some rules of the road, access would be more equitable. It also would approach the Aloha model (and with

bunching it is less than aloha). Looking at Dave Vanhorn's example, with the 500 watt station on his 5 watt slot.... you also could dither each slot randomly within a certain window (although that would require software, up until now everything I spoke of didn't).

>As far as I can see, the only advantage of assigned slots would be that
>if you say to someone, for example, "transmit on second 37", then you're
>also telling them to transmit no more than once a minute.

I was primarily discussing means to encourage random distribution as opposed to a coordinated slotting method. This would require cooperation among the authors. However, if such is the case, there are significant advantages to slotted aloha over aloha. I suggest you review some of the texts on packet radio as you will clearly see the advantages, in particular for systems that are comprised primarily of hidden terminals.

But let's take what you said a step further. The "only" advantage you state, one of being able to assign slots and times, into itself is a significant advantage.

But you can take it even further than that. Since this "assignment" is made by a server that has access to all these stations, and their receivers, it can tell the sending station when in fact it has been heard by ISS. Then, it can instruct the sending station... OK, ISS heard you, stop beaconing until ISS is at the other end of the pass. This then opens up the slot for another station.

>Also, I'm not so sure that the long periods of silence from ISS are as a
>result of it being held off by uplink traffic. If it was, then I would
>expect to see it spew out a whole bunch of frames when eventually it got
>in, but I haven't seen any evidence of that at all.

I'd expect it to be operating in "FULLDUP" mode, that is ignoring CSMA. But maybe it is not. Your question is best directed towards the ISS team.

>What I do notice is
>that it seems much easier to access it when it's at a very low elevation
>than when it's at a high angle, and that certainly isn't because of the
>antennas I'm using.

What kind of antennas are you using? Most (all) amateur omni antennas direct most of the signal at the horizon. The best kind of antenna to us for ISS should be crossed dipoles over a screen. This would give you the best signal as it went overhead, whereas an omni would give you the worst signal overhead.

Now in summary, all of my statements regarding packet theory (and the oversights) were known by those that designed the ISS digipeater. Everything could have been addressed before launch. It apparently wasn't. Hence, I don't expect anything

to change. It is primarily a PR tool, and as such, it is targeted exactly right.
The
good news here is the novelty will soon wear off, and possibly we can use it for
some
limited useful things.

I think rehashing Bob's Dayton psedo-code (Bob?) might be useful as it can be used
by
mobiles, but a worldwide slotting system, while a good thing, just wouldn't be
that
useful due to the fact it would not be universally adopted.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 17:31:13 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA14591
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 17:31:07 -0500 (CDT)
Message-ID: <LYR11589-6919-2001.04.14-17.48.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 14 Apr 2001 23:30:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billdiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>
<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tapr.org>
<4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
<LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists.tapr.org>
<LYR22299-6854-2001.04.14-03.30.35--jeff#aerodata.net@lists.tapr.org>
<3AD8A4DA.A754F84F@aerodata.net>
In-Reply-To: <3AD8A4DA.A754F84F@aerodata.net>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <CRfjqLA19M26EwBB@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In article <3AD8A4DA.A754F84F@aerodata.net>, Jeff King
<jeff@aerodata.net> writes
>
>I'll try.
[snip]

Thanks for the interesting reply. Perhaps I should make the point that I was specifically commenting on the concept that "bunching" of transmission is likely to be currently occurring. To expand the concept, what it would mean is that -

At any given moment there are 'n' hams within the footprint of ISS attempting to access it, and some mechanism is causing the transmissions from those 'n' hams to "bunch" in time rather than be evenly distributed.

I'm afraid that I'll remain sceptical about that until someone comes up with a believable "for instance" that could cause it to occur.

>Bunching is a known human behavior. One can see it in many forms.... the
>desire to pick a "round" number, working 9-5, rush hour, bidding on auctions,
>waiting until ISS is about to rise above the horizon to turn the beacon on.

But that varies for each ham in the footprint, because they don't all live in the same place. They also don't all have the same horizon angle, the same antennas, the same receiver sensitivity, accurate clocks, etc, etc.

[snip]

>>Also, I'm not so sure that the long periods of silence from ISS are as a
>>result of it being held off by uplink traffic. If it was, then I would
>>expect to see it spew out a whole bunch of frames when eventually it got
>>in, but I haven't seen any evidence of that at all.
>
>I'd expect it to be operating in "FULLDUP" mode, that is ignoring CSMA. But
>maybe it is not. Your question is best directed towards the ISS team.

Given that the TNC reset - hence the NOCALL - my assumption is that it's operating half duplex. Perhaps I'm wrong?

>>What I do notice is
>>that it seems much easier to access it when it's at a very low elevation
>>than when it's at a high angle, and that certainly isn't because of the
>>antennas I'm using.
>
>What kind of antennas are you using? Most (all) amateur omni antennas direct

>most of the signal at the horizon. The best kind of antenna to us for ISS
>should
>be crossed dipoles over a screen. This would give you the best signal as it
>went
>overhead, where as a omni would give you the worst signal overhead.

Circularly polarised crossed dipoles with reflectors underneath (wx sat style), colinear and a circularly polarised beam. However, I'm not specifically commenting on my own attempts to access the digi, my observations are based very much on what I'm hearing of other stations attempts. (Note - I'm making these comments because I find the subject interesting, I hope no-one regards it as a complaint or criticism!)

It could of course be that the ISS receiver is being totally blocked by in band or out of band traffic. It certainly gives the impression that it is hearing very little. For instance, I've noticed that if a station connects to ISS (NOCALL), and the TNC on ISS gets in a situation where it's polling the connected station, the poll frames will be transmitted every few seconds, which doesn't suggest that it's a simple case of being held off by uplink traffic.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.packetradio.org.uk>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 18:03:34 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA15774
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 18:03:33 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6926-2001.04.14-18.20.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 14 Apr 2001 19:03:00 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <01C0C412.99CEDBA0.billldiaz@megsinet.net>
<LYR21978-6705-2001.04.13-12.49.07--w2ev#rochester.rr.com@lists.tapr.org>

<LYR22299-6710-2001.04.13-12.56.32--jeff#aerodata.net@lists.tapr.org>
<LYR22299-6724-2001.04.13-13.28.24--jeff#aerodata.net@lists.tapr.org>
<4.3.2.7.2.20010413190511.02fb17d0@mail.cedar.net>
<LYR13460-6799-2001.04.13-20.24.12--roger#peaksys.co.uk@lists.tapr.org>
<LYR22299-6854-2001.04.14-03.30.35--jeff#aerodata.net@lists.tapr.org>
<3AD8A4DA.A754F84F@aerodata.net> <LYR22299-6919-2001.04.14-17.48.00--
jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3AD8D724.4F1F255@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Roger Barker wrote:

>
> In article <3AD8A4DA.A754F84F@aerodata.net>, Jeff King
> <jeff#aerodata.net> writes
>
[snip on bunching]

I'm stating bunching is part of human nature. We are not random creatures. While I will concede to you that outside random influences can mitigate the effects of bunching, I don't think we should depend on them nor assume such is the case. Someday everyone's clock may infact be accurate for example. You can't depend on deficiencies to always exist.

In any case, bunching is just one piece of the puzzle. The idea is to have a standard algorithm that everyone can use... be it human pseudo code or some computer program. Doesn't matter. Lacking this, it is in fact anarchy, and the rules of anarchy begin to take affect. CQ contest, CQ contest.

> >What kind of antennas are you using?

> Circularly polarised crossed dipoles with reflectors underneath (wx sat

> style), colinear and a circularly polarised beam.

And is it safe to say you are in the minority here? Most of the ones commenting on using ISS I have seen are using conventional vertically polarized omni's.

> However, I'm not

> specifically commenting on my own attempts to access the digi, my

Which means your observations are entirely consistent.

Let me ask you this. I was talking with another fellow off SIG and he indicated to me he was observing some deep fading with the ISS station. He was using a 3.5db gain vertical on his car. With your crossed dipoles, where you observing any deep fading? (>20db) I suggested that ISS is using linear polarization as opposed to circular polarization, which is the norm for space coms. In your case, using circular polarization, your fades would be minimal. Is such the case?

> It could of course be that the ISS receiver is being totally blocked by
> in band or out of band traffic. It certainly gives the impression that
> it is hearing very little. For instance, I've noticed that if a station
> connects to ISS (NOCALL), and the TNC on ISS gets in a situation where
> it's polling the connected station, the poll frames will be transmitted
> every few seconds, which doesn't suggest that it's a simple case of
> being held off by uplink traffic.

Actually, a thought just came to me. Since ISS is receiving and transmitting on different frequencies, there is no need to hold off for anything and it should be in FULLDUP mode.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 18:08:41 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA16285
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 18:08:36 -0500 (CDT)
Date: Sat, 14 Apr 2001 18:08:22 -0500
Message-Id: <LYR11589-6927-2001.04.14-18.25.28--

lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
X-IPAddress: 209.83.83.47
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200104142308.SAA16061@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Actually, a thought just came to me. Since ISS is receiving and
transmitting on
> different frequencies, there is no need to hold off for anything and
> it should be in FULLDUP mode.

They don't have duplexers up there, Jeff! There would be considerable
desense of the receiver in doing that, even if they had two antennas.

-Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 18:11:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA16342
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 18:10:54 -0500 (CDT)
Message-Id: <LYR11589-6928-2001.04.14-18.27.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 14 Apr 2001 18:10:40 -0500
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <iss.6fe.3ad8d8f0.9634d.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Subject: [aprsspec] Re: APRS Compliance
> Date: Wed, 28 Mar 2001 07:04:34 -0500
> From: Steve Dimse <k4hg@tapr.org>
>
> On 3/27/01 5:50 PM Timothy J Salo (tjs@tc.umn.edu) wrote:
> [...]
> >I believe that it is far more appropriate for an APRS protocol test suite
> >to be expressed as raw AX.25 frames (which reflect the objective of the
> >protocol specification, namely to specify correct on-the-air formats and
> >protocols).
> >
> To the best of my knowledge, all APRS programs accept the text format of
> input.

Pic-E, MIC-E, and HamHUD-III come to mind as APRS end-stations that do not assume the existence of a TNC, and therefore do not accept TNC-style text strings as input.

> By "raw AX.25 frames" I presume you are proposing a new file
> format with just the binary data, correct? TTBOMK, no APRS program
> accepts this format. Therefore, in order to use the test suite, each
> author must add code to their program, code which is otherwise worthless,
> and could be another source of errors.

I assume that all APRS programs accept 1200 bps AFSK, either baseband (e.g., similar to what you would expect out of an audio jack on your rig) or RF.

> Alternatively, someone must write
> programs to transmit the info on the air (or two TNC's back to back).
> This would allow people other than the programmers to perform the test,
> but requires setting up hardware.

I believe that making it easy to create and run tests against APRS software will be a good thing for the APRS community. I believe that it will lead to a much greater number of tests being developed and run. This will lead to a greater understanding of how the different programs respond to various packets and how the programs compare to the APRS specification. It may even lead to an overall improvement in the APRS implementations.

Obviously, the hardware part isn't very hard.

Somewhere, I have a Java class that represents an AX.25 packet. It can create an instance of itself from a TAPR TNC2 or AEA/Timewave text string, (or, in pre-object-oriented language, it can take a text string as input). The class can output itself as a binary string or a TNC2 or AEA/Timewave text string. This class is pretty liberal; it accepts almost anything that is close, even some of the combined TNC2/AEA format packets found on the APRServe data stream.

It wouldn't be too hard for the class to output itself as a KISS string. I will probably do this in the next few weeks for another project.

More importantly, this isn't really hard code. The difficult part is correctly parsing all the variations in TNC strings, particularly if you want to use the APRServe data stream as input. As you mentioned, many APRS programs have this code already (although I suppose the source code for many of these implementation is not freely available).

> If it were a TNC text file, click open and you are testing.
>
> What precisely do you gain by using this format other than being more pure?

First, TAPR TNC2 text strings are not adequately expressive. Some valid APRS packets cannot be encoded using TAPR TNC2 text strings (e.g., may result in non-printing characters which may or may not be preserved). The TNC text format doesn't allow some of the AX.25 fields to be set (e.g., AX.25 reserved bits). I don't think the TAPR TNC2 format allows the AX.25 command/response bit to be controlled, although I think the AEA/Timewave format does.

Second, I believe a language for representing APRS test messages should also be able to create invalid messages. A reasonable example is APRS messages without a terminating CR. I don't believe these can be created using TNC text strings, but I believe that messages of this form used to cause one or more APRS programs to crash.

Third, I believe that anything that continues to promote the TNC model at this point in history is a disservice to the digital amateur community. TNCs were instrumental in the popularization of packet radio. However, that was a very long time ago -- we shouldn't be thinking in terms of an architecture that made sense for C-64s.

Finally, I am trying to answer the question: Ignoring other practical considerations, what would be the most powerful method of representing APRS packets for the purposes of creating test scripts?

I suppose you can call my proposal more precise, more expressive, more correct, more modern, or even more pure.

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 14 19:57:18 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA20572
for <lyris.aprsspec@tapr.org>; Sat, 14 Apr 2001 19:57:17 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-6939-2001.04.14-20.14.10--
lyris.aprsspec@tapr.org>
Date: Sat, 14 Apr 2001 20:57:08 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] Re: Hidden transmitters & ARISS
References: <200104142308.SAA16061@dm.deskmedia.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3AD8F1E4.B094379D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

James:

The FULLDUP ON command just tells the TNC to ignore the Data Carrier detect signal. Might be a different command for other TNC's, but that was what my TNC2 was. Doesn't mean you really are full duplex.

-Jeff

James Jefferson wrote:

>

> > Actually, a thought just came to me. Since ISS is receiving and
> transmitting on

> > different frequencies, there is no need to hold off for anything and
> > it should be in FULLDUP mode.
>
> They don't have duplexers up there, Jeff! There would be considerable
> desense of the receiver in doing that, even if they had two antennas.
>
> -Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 15 11:53:37 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA29262
for <lyris.aprsspec@tapr.org>; Sun, 15 Apr 2001 11:53:28 -0500 (CDT)
Message-Id: <LYR11589-7096-2001.04.15-12.10.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: APRS Compliance
Date: Sun, 15 Apr 2001 12:53:10 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200104151653.JAA12331@scaup.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 4/14/01 7:10 PM Timothy J Salo (tjs@tc.umn.edu) wrote:

>> To the best of my knowledge, all APRS programs accept the text format of
>> input.

>

>Pic-E, MIC-E, and HamHUD-III come to mind as APRS end-stations that do not
>assume the existence of a TNC, and therefore do not accept TNC-style
>text strings as input.

>

The Mic-E does not accept any input, and there are only a couple of
rarely used Pic-E programs that use the demod fundtion of the Pic-E. The
HH-III will

>> By "raw AX.25 frames" I presume you are proposing a new file
>> format with just the binary data, correct? TTBOMK, no APRS program
>> accepts this format. Therefore, in order to use the test suite, each
>> author must add code to their program, code which is otherwise worthless,
>> and could be another source of errors.

>

>I assume that all APRS programs accept 1200 bps AFSK, either baseband
>(e.g., similar to what you would expect out of an audio jack on your
>rig) or RF.

>

Wrong. None of my programs accept AFSK, and in fact for javAPRS and findu
there is no way to connect a TNC directly, so the data would have to come
through another program first. Nor do most of the client programs take
audio directly, requiring a TNC or sound card to convert the AFSK into
text or KISS frames first.

>> Alternatively, someone must write
>> programs to transmit the info on the air (or two TNC's back to back).
>> This would allow people other than the programmers to perform the test,
>> but requires setting up hardware.

>

>I believe that making it easy to create and run tests against APRS
>software will be a good thing for the APRS community. I believe that
>it will lead to a much greater number of tests being developed and run.
>This will lead to a greater understanding of how the different programs
>respond to various packets and how the programs compare to the APRS
>specification. It may even lead to an overall improvement in the
>APRS implementations.

>

I agree. That is why I think it is important to have a test suite
available to the largest number of users with the least possible effort.

>...

>More importantly, this isn't really hard code. The difficult part is
>correctly parsing all the variations in TNC strings, particularly if you
>want to use the APRServe data stream as input. As you mentioned,
>many APRS programs have this code already (although I suppose the source
>code for many of these implementation is not freely available).

>

No it isn't hard. However, you seem to be advocating multiple back and
forth conversions before the data actual gets to the program's parser,
which increases the chance for error. KISS!

>> If it were a TNC text file, click open and you are testing.

>>

>> What precisely do you gain by using this format other than being more pure?

>

>First, TAPR TNC2 text strings are not adequately expressive. Some
>valid APRS packets cannot be encoded using TAPR TNC2 text strings

>(e.g., may result in non-printing characters which may or may not be
>preserved). The TNC text format doesn't allow some of the AX.25
>fields to be set (e.g., AX.25 reserved bits). I don't think the
>TAPR TNC2 format allows the AX.25 command/response bit to be controlled,
>although I think the AEA/Timewave format does.

>

Setting undefined bits is hardly something that needs to be part of the
testing suite. If someone defines a bit that the AX-25 protocol reserves,
it is simply not a valid AX-25 packet!

Non-printing characters can be present in a text string, in fact they are
all the time. There are only a handful allowed in the spec, and none of
these are ones that even require escaping (normally ctrl-v) like return.

>Second, I believe a language for representing APRS test messages
>should also be able to create invalid messages. A reasonable example
>is APRS messages without a terminating CR. I don't believe these can
>be created using TNC text strings, but I believe that messages of this
>form used to cause one or more APRS programs to crash.

>

Most APRS packets are transmitted on the air without a trailing carriage
return. If you want to include one in the string, you must escape it,
e.g. <ctl-v><cr>

>Third, I believe that anything that continues to promote the TNC model
>at this point in history is a disservice to the digital amateur community.
>TNCs were instrumental in the popularization of packet radio. However,
>that was a very long time ago -- we shouldn't be thinking in terms
>of an architecture that made sense for C-64s.

>

Version 1 of the aprsspec is, and always we be, heavily dependent on the
TNC model. We are talking about the test suite for version 1 of the spec.
If there ever is a version 2, and it is not dependent on the TNC model,
then your argument makes sense.

>Finally, I am trying to answer the question: Ignoring other practical
>considerations, what would be the most powerful method of representing
>APRS packets for the purposes of creating test scripts?

>

One that can be looked at and examined by eye, without the need for
editing software. You didn't address this point of my argument. How
exactly do you plan to create and edit these packets?

As I said, you can use a vanilla binhex editor, but then everyone
writing, editing, and even just looking at them needs to become fluent
with the ins and outs of AX-25. You could write an AX-25 specific editor,
but you'd need at least Mac, Windows, and Linux versions for it to be

available to all who would be interested, and even then some knowledge of the AX-25 spec would be needed.

>I suppose you can call my proposal more precise, more expressive, more
>correct, more modern, or even more pure.

>

No, I wouldn't, I'd say it's more effort-intensive, and more error prone.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 26 09:32:00 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11364
for <lyris.aprsspec@tapr.org>; Thu, 26 Apr 2001 09:31:56 -0500 (CDT)
Message-Id: <LYR11589-9321-2001.04.26-09.49.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Dayton Hamfest: APRS at the TAPR Digital Forum
Date: Thu, 26 Apr 2001 10:31:32 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200104261431.HAA05982@snipe.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

.

Once again I have been handed the utterly impossible task of covering all of APRS in 45 minutes within the TAPR Digital Forum on Friday. Without announcement I have already received four requests for time. In previous years, I tried to do a "What's New" sort of presentation myself, but this year I will let people speak for themselves...here are the ground rules:

1. Anyone that wants to talk should email me directly (k4hg@tapr.org) with a request, giving presenter's name, callsign, and topic. The deadline for requests will be 0000z on May 5th. NO EXCEPTIONS!

2. Given that the requests already total more than the allocated 45 minutes, time will be split evenly among all who request. If any presentations run short, there will be a general Q&A period afterwards. NO EXCEPTIONS!

3. Given the problems that usually occur when trying to connect laptops to the projector at presentations, no computers will be allowed. If you have something you want to show off, create a handout to be passed out prior to the presentation. NO EXCEPTIONS!

4. I will be very strict about time, I will notify the speakers in advance of the time per presentation. Time will start from when you are announced, not when you get to the front and start talking, so get there early and sit in front if you want to maximize your time. I suggest you practice to get it all in within your allocated time. NO EXCEPTIONS!

5. No yielding of allocated time (I.e. don't bother getting 5 of your buddies to request time so you can talk longer). NO EXCEPTIONS!

6. If you ask for time, and then can't make it, please let me know as soon as possible so that I can adjust the schedule.

7. It would good to announce where you will be later in the day for questions, since there will be little if any time for questions to be fielded at the time.

Sorry for the rules, but this is hard enough to do in a 6 hour format at the DCC, 45 minutes is really tough.

I'd like a volunteer or two to help distribute handouts so we can minimize disruptions.

Steve K4HG

[Please forward this to any APRS-related lists I miss]

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 14 07:23:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA14132
for <lyris.aprsspec@tapr.org>; Mon, 14 May 2001 07:23:41 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 14 May 2001 08:23:21 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Davis Instruments Vantage weather station and APRS
Message-ID: <LYR11589-12616-2001.05.14-07.41.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10105140822190.27435-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

All APRS Authors:

Brett Lane sent me an announcement that Davis WX will have a new WX station, and he wanted all APRS authors to have a copy of the interface spec. The below message gives a URL for the data...

Enjoy, de Wb4APR, Bob

On Tue, 8 May 2001, Brett Lane wrote:

> Very shortly Davis Instruments will be releasing a new weather station that
> is far superior to any of its predecessors. Prior to its release I want to
> pledge our commitment to APRS and remind both of you that we hope to see
> future APRS versions compatible with our Vantage weather line.

> Below I have attached our first stab at programming documentation for the
> new station. Also, the complete user manual for the system (Vantage Pro
> Console Manual) is available for download at
> http://www.davisnet.com/support/weather/support_docs.asp?dtype=1

> If you have any questions please feel free to contact me.

> See ya in Dayton.

> Brett Lane

> Technical Support Manager
> 510-732-9229 blane@davisnet.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 17 09:26:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03698
for <lyris.aprsspec@tapr.org>; Thu, 17 May 2001 09:26:55 -0500 (CDT)
Subject: [aprsspec] General Queries
Date: Thu, 17 May 2001 09:26:33 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Message-ID: <LYR11589-13259-2001.05.17-09.45.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.4418.65
content-class: urn:content-classes:message
Thread-Topic: General Queries
Thread-Index: AcDe3V9/UDr/fr3mQRKdVKS5dB/PeA==
From: "AE5PL Lists" <HamLists@ametx.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC012F7D@ame-main.ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA03698

Do all IGates pass general queries from RF to the Internet? If so, it would make sense to update IGate software to not gate general queries (packets with ? as the first character). This would not affect directed queries, just general queries such as ?APRS?, ?IGATE?, ?WX?, etc. While ?APRS? and ?WX? are rather harmless, ?IGATE? generates directed messages to the originating station. Someone trying to see what IGates are local would get a world-wide response (ugly).

This wouldn't preclude someone physically operating on an IGate from generating a general query to the Internet. It would simply prevent RF originated general queries from creating an overload on the Internet as well as (in the case of ?IGATE?) preventing the Internet from overloading the local RF channel with responses. Brent has modified the latest version of APRS+SA to prevent the gating of general queries from RF to the Internet. I would recommend that other IGate software authors do the same.

By the way, "Why send an ?IGATE? query via RF?" you might ask. "To see what IGates are in range of my station." I would reply.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 18 02:55:39 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA08412
for <lyris.aprsspec@tapr.org>; Fri, 18 May 2001 02:55:36 -0500 (CDT)
Subject: [aprsspec] RE: General Queries
Date: Fri, 18 May 2001 02:54:45 -0500
Message-ID: <LYR11589-13373-2001.05.18-03.13.39--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Thread-Topic: General Queries
X-MimeOLE: Produced By Microsoft Exchange V6.0.4418.65
content-class: urn:content-classes:message
Thread-Index: AcDe3V9/UDr/fr3mQRKdVKS5dB/PeAAkBoaA
From: "AE5PL Lists" <HamLists@ametx.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC012F83@ame-main.ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id CAA08412

One other problem observed with general queries. aprsD and others do not respond correctly to ?IGATE?. First, many IGates respond with a message to the query originator. Wrong (see below). Second, text is sent instead of the proper IGATE codes.

This is from the published specification (section 15, para 1):

A station may define a set of one or more attributes of the station, known as Station Capabilities. The station transmits its capabilities in response to an IGATE query (see below), using the < Data Type Identifier. Each capability is a TOKEN or a TOKEN=VALUE pair. More than one capability may be on a line, with each capability separated by a comma.

Currently defined capabilities include:

IGATE,MSG_CNT=n,LOC_CNT=n

where IGATE defines the station as an IGate, MSG_CNT is the number of messages transmitted, and LOC_CNT is the number of "local" stations (those to which the IGate will pass messages in the local RF network).

This means, at minimum, a response to a GENERAL IGATE query is a packet that is solely "<IGATE,MSG_CNT=0,LOC_CNT=1". Additional tokens may be added but that is the minimum (APRS+SA adds FILL_CNT). If the IGATE query is directed, then this can be returned as a message, but never to a general query.

>From my perspective, 2 things need to be done.

1: correct badly behaving IGate software to send the proper response to ?IGATE?.

2: have IGate software filter out general queries from being gated from RF to the Internet.

#1 is the most readily fixable and variations from the standard other than adding tokens should be considered a bug. #2 is an enhancement to IGate software which would substantially decrease network activity.

73,

Pete Loveall AE5PL

<http://www.ae5pl.net>

<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Jun 26 12:17:41 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00777
for <lyris.aprsspec@tappr.org>; Tue, 26 Jun 2001 12:17:34 -0500 (CDT)
Date: Tue, 26 Jun 2001 10:17:19 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Detail on area objects
Message-ID: <LYR11589-20577-2001.06.26-12.37.38--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.LNX.4.33.0106260955300.31603-1000000@tesla.intra.calle.org>
Precedence: bulk

Hello,

I'm looking for more detail on the area object APRS Data Extension.
The spec (chapter 11, version 1.0.1) gives only a very cursory explanation
of what the area being defined is. I'll list a few specific questions:

Why does it say the size of the areas can go from 60 feet to 100 miles
when the smallest offset (1/100 of a degree) is closer to 1km?

The explanation that the lat/long is the upper left corner of the
object with the other corner being relative to there is fine for
drawing boxes and lines, but gives no guidance on drawing circles,
ellipses, or triangles. The phrase "corner of the object" is left
completely open to interpretation in the cases of circles/ellipses
since they have no corners. Is it a box within which the
circle/ellipse fits? That would be my first assumption, but that is
confused since doing it that way would not have required two object
types since an ellipse inside a square box is a circle.

Triangles are also a mystery. Drawing a triangle from just two points
must be using some unstated rules. What are they?

I think that's all for now.

Thanks in advance for enlightening me on these points.

--

Olivier Calle

internet: <olivier@calle.org>
work tel: 425-446-5088 home tel: 360-658-2692 To err is human,
callsign: N7TAP, class: General to really foul up
job: Fluke Networks, Sr. Software Engineer requires the root
WWW Page URL: <http://calle.org/olivier/> password...
Psalm 48:14 SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 12:48:55 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04301
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 12:48:52 -0500 (CDT)
X-Sent: 26 Jun 2001 17:48:36 GMT
Subject: [aprsspec] Re: Detail on area objects
Date: Tue, 26 Jun 2001 13:48:36 -0400
x-sender: sdimse@mail.telocity.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-20580-2001.06.26-13.08.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 6/26/01 1:17 PM Olivier Calle (olivier@calle.org) wrote:

>Why does it say the size of the areas can go from 60 feet to 100 miles
>when the smallest offset (1/100 of a degree) is closer to 1km?
>
This one is easy. If you look again at the spec, the size is defined as
the square root of 1/100 degrees, so 1 means the square root of 0.01
degrees, or 0.0001 degrees.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 13:13:28 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA06136
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 13:13:20 -0500 (CDT)
Date: Tue, 26 Jun 2001 11:13:10 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Detail on area objects
In-Reply-To: <LYR24539-20580-2001.06.26-13.08.54--
olivier@calle.org@lists.tapr.org>
Message-ID: <LYR11589-20585-2001.06.26-13.33.28--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.LNX.4.33.0106261102470.32715-100000@tesla.intra.calle.org>
Precedence: bulk

On Tue, 26 Jun 2001, Steve Dimse appears to have said:
SD> This one is easy. If you look again at the spec, the size is defined as
SD> the square root of 1/100 degrees, so 1 means the square root of 0.01
SD> degrees, or 0.0001 degrees.

I'm still confused. The example on page 61 has an offset of one degree.
It multiplies that by 100 to get centi-degrees and then takes the square
root, using that value (10) in the formatted packet. If I do the same
example with .01 degrees, I get the square root of 1, and this is the
smallest number I can put in the formatted packet.
Here are the two equations I would come up with from the spec as I have
read it:

```
packet_format      = (int)sqrt(100 * offset_in_degrees)
offset_in_degrees = (packet_format * packet_format) / 100
```

What equations do you believe to be correct and shouldn't they be put into
the next rev of the spec, mathematical equations being a global standard

for accurately describing the transformation of numbers, etc. ;-)

--

Olivier Calle

internet: <olivier@calle.org>
work tel: 425-446-5088 home tel: 360-658-2692 To err is human,
callsign: N7TAP, class: General to really foul up
job: Fluke Networks, Sr. Software Engineer requires the root
WWW Page URL: <http://calle.org/olivier/> password...
Psalm 48:14 SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 13:55:54 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA10001
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 13:55:47 -0500 (CDT)
X-Sent: 26 Jun 2001 18:21:12 GMT
Subject: [aprsspec] Re: Detail on area objects
Date: Tue, 26 Jun 2001 14:21:12 -0400
x-sender: sdimse@mail.telocity.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-20589-2001.06.26-14.15.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 6/26/01 2:13 PM Olivier Calle (olivier@calle.org) wrote:

>I'm still confused. The example on page 61 has an offset of one degree.
>It multiplies that by 100 to get centi-degrees and then takes the square
>root, using that value (10) in the formatted packet. If I do the same
>example with .01 degrees, I get the square root of 1, and this is the

```
>smallest number I can put in the formatted packet.  
>Here are the two equations I would come up with from the spec as I have  
>read it:  
>packet_format      = (int)sqrt(100 * offset_in_degrees)  
>offset_in_degrees = (packet_format * packet_format) / 100
```

You take the square root of the decimal number of degrees, not the "centi-degrees" number. If 0.01 degree is your desired number, you take the square root of .01, which is .1, the transmitted number is 10...

I put your "centi-degrees" in quotes, because that isn't the correct nomenclature, the on-the-air-number is the square root of centi-degrees. That you think of it as centi-degrees is the root of your misunderstanding.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 14:18:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA12708
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 14:18:07 -0500 (CDT)
X-Sent: 26 Jun 2001 19:17:19 GMT
Subject: [aprsspec] Re: Detail on area objects
Date: Tue, 26 Jun 2001 15:17:19 -0400
x-sender: sdimse@mail.telocity.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-20592-2001.06.26-14.38.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 6/26/01 2:21 PM Steve Dimse (k4hg@tapr.org) wrote:

>I put your "centi-degrees" in quotes, because that isn't the correct

>nomenclature, the on-the-air-number is the square root of centi-degrees.

Actually, let me correct myself before someone else does. OTA number is centi-square-root degrees!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 15:16:45 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19067
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 15:16:27 -0500 (CDT)
Date: Tue, 26 Jun 2001 13:16:17 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Detail on area objects
In-Reply-To: <LYR24539-20589-2001.06.26-14.15.53--olivier#calle.org@lists.tapr.org>
Message-ID: <LYR11589-20600-2001.06.26-15.36.37--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.33.0106261308260.3035-100000@tesla.intra.calle.org>
Precedence: bulk

On Tue, 26 Jun 2001, Steve Dimse appears to have said:

SD> You take the square root of the decimal number of degrees, not the
SD> "centi-degrees" number. If 0.01 degree is your desired number, you take
SD> the square root of .01, which is .1, the transmitted number is 10...

OK, so the example is completely wrong. As I said before (and as you can go read in the spec) it says that it has offsets of 1 degree and shows the following:

$yy = xx = \sqrt{100} = 10$

If I have offsets of 1 degree and do it the way you describe in your email I get this:

$yy = xx = 100 * \sqrt{1} = 100$

BTW, this object is slightly too big, right?

The spec also says this:

"yy is the square root of the latitude offset in 1/100ths of a degree."

So basically, the spec has it backwards both in the text (since there is no equation to be found) and in it's example.

--
Olivier Calle

internet: <olivier@calle.org>
work tel: 425-446-5088 home tel: 360-658-2692 To err is human,
callsign: N7TAP, class: General to really foul up
job: Fluke Networks, Sr. Software Engineer requires the root
WWW Page URL: <http://calle.org/olivier/> password...
Psalm 48:14 SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jun 26 17:13:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA02290
for <lyris.aprsspec@tapr.org>; Tue, 26 Jun 2001 17:13:42 -0500 (CDT)
X-Sent: 26 Jun 2001 22:12:34 GMT
Subject: [aprsspec] Re: Detail on area objects
Date: Tue, 26 Jun 2001 18:12:34 -0400
x-sender: sdimse@mail.telocity.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-20642-2001.06.26-17.33.08--
lyris.aprsspec@lists.tapr.org>
Precedence: bulk

On 6/26/01 4:16 PM Olivier Calle (olivier@calle.org) wrote:

>OK, so the example is completely wrong. As I said before (and as you can
>go read in the spec) it says that it has offsets of 1 degree and shows the
>following:

Yes, the example is wrong, the example is 0.1 degree.

>yy = xx = sqrt(100) = 10
>If I have offsets of 1 degree and do it the way you describe in your email
>I get this:
>yy = xx = 100 * sqrt(1) = 100
>BTW, this object is slightly too big, right?
>
Yes, looks like 0.98 degrees is the largest you can describe.

>The spec also says this:
>"yy is the square root of the latitude offset in 1/100ths of a degree."
>
>So basically, the spec has it backwards both in the text (since there is
>no equation to be found) and in it's example.
>
No, the text is right, if poorly worded:

yy is (the square root of the latitude offset) in 1/100ths of a degree.

rather than:

yy is the square root of (the latitude offset in 1/100ths of a degree).

which is what I think you were reading.

I'd eliminate the "of a degree", as it is technically not correct.

Is Bob and/or Ian listening?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Jul 2 17:44:09 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA26758
for <lyris.aprsspec@tappr.org>; Mon, 2 Jul 2001 17:44:04 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 2 Jul 2001 18:43:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Detail on area objects
In-Reply-To: <LYR11586-20642-2001.06.26-17.33.08--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-21836-2001.07.02-18.04.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10107021837080.9946-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 26 Jun 2001, Steve Dimse wrote:

> yy is the square root of (the latitude offset in 1/100ths of a degree).
> which is what I think you were reading.
> I'd eliminate the "of a degree", as it is technically not correct.
>
> Is Bob and/or Ian listening?

No, I was on a weeks vacation with family and have 900 messages to wade through. But am impressed at your patience in figuring this all out. Id have to go back and re-look at my code. Remember, that what is in the spec is Ian's interpretation and may or may not reflect how I actually did it and then over 2 years got the Sprouls and mine to match up...

Also I have one week to finish our satellite for final review, so wont have time to pick up this ball till later. So thanks for jumping in!

It is painful, I am sure.

One mitigation is that the AREAS initially were up to 400 miles and in about 1995 we changed the scale...to the smaller 100 mile ones... Im not sure if the documentation ever caught up... sorry....

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 4 17:32:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA26965
for <lyris.aprsspec@tapr.org>; Wed, 4 Jul 2001 17:32:29 -0500 (CDT)
Date: Wed, 04 Jul 2001 18:25:44 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] TAPR Offices Moving; Short Closure and New Phone Numbers
Message-ID: <LYR11589-22223-2001.07.04-17.50.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <115561989.994271144@[192.168.1.26]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The TAPR offices will be moving a few miles from Denton to Richardson, Texas. We'll be closing on July 26 for the move and re-opening on August 6. The Tucson mailing address will remain the same (it is a maildrop that forwards to the real office address) but the phone numbers will change. Effective August 6, they will be:

Voice: 972-671-TAPR (8277)
FAX: 972-671-8716

The office email address -- tapr@tapr.org -- will not change.

The move is occurring because Dorothy Jones, KA5DWR, our longtime Office Manager, has decided to take a well-earned retirement. It would take a lot of words to fully describe how much Dorothy has done for TAPR, and how much

we've all relied on her over the years, so I'll just say "Thanks!"

Our new office manager is Laura Koster (XYL of Board member John Koster, W9DDD). Laura had a baptism of fire by handling the TAPR booth at the Dayton Hamvention this year, and she did a great job. We're very happy to have her on board, and we're sure that she will carry on Dorothy's goal of providing great service to our members.

73,
John Ackermann N8UR
President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 14:13:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA19852
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 14:13:08 -0500 (CDT)
Date: Tue, 17 Jul 2001 12:11:45 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <BowHunter@mail.com>
Subject: [aprsspec] Weather
Message-ID: <LYR11589-24770-2001.07.17-14.33.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107171210390.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Page 64 of the APRS spec talks about weather report format:

"s = sustained one-minute wind speed (in mph).

p = rainfall (in hundredths of an inch) in the last 24 hours.
...
Other parameters that are available on some weather station units include:
L = luminosity (in watts per square meter) 999 and below.
l (lower-case letter "l") = luminosity (in watts per square meter)
1000 and above.
(L is inserted in place of one of the rain values).
s = snowfall (in inches) in the last 24 hours.
= raw rain counter"

Weather Questions:

-
- 1) Why are there two 's' fields defined, wind speed _and_ snow?
Is one a typo and should have been a capital 'S'? Probably snow?
 - 2) Rainfall in last 24 hours. I assume this is intended to be a rolling count going backwards from the current time 24 hours, and not the amount of rain that was seen yesterday. "last 24 hours" implies a rolling count to me. I'm fairly sure on this one, just checking.
 - 3) The "Other parameters" _letters_ are defined, but the number of bytes for each field are not.
I'll assume 'L' has 4 bytes (L999)
'l' has ?? bytes? (l1000, l10000, l1000000000)
's' has ?? bytes? Format? (s1.25, s100.99)
'#' has ?? bytes? Units? Format?
 - 4) What is the "raw rain counter"? Is that the "total rain" counter that some weather stations provide, or the raw counts from the rain bucket over some time period? How many bytes for that field and in what format? 1/100 inch? Inches? Counts?

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 14:21:51 2001

Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id OAA21020
for <lyris.aprrspec@taprr.org>; Tue, 17 Jul 2001 14:21:48 -0500 (CDT)
Message-Id: <LYR11589-24773-2001.07.17-14.42.32--
lyris.aprrspec#taprr.org@lists.taprr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Tue, 17 Jul 2001 14:20:40 -0500
To: "APRS Spec Discussion List" <aprrspec@lists.taprr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprrspec] Re: Weather
Cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <BowHunter@mail.com>
In-Reply-To: <LYR11608-24770-2001.07.17-14.33.45--dvanhorn#cedar.net@lis
ts.taprr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprrspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprrspec@lists.taprr.org>
List-Owner: <mailto:owner-aprrspec@lists.taprr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.taprr.org>>
X-Message-Id: <4.3.2.7.2.20010717141924.00de4e50@mail.cedar.net>
Sender: bounce-aprrspec-11589@lists.taprr.org
Precedence: bulk

Here's another one for you:

How do you differentiate "No X" from "No sensor for X".
Is your windspeed 0 because it really is, or because you don't have a sensor?

There are some potholes in this spec.

--

Dave's Engineering Page: <http://www.dvanhorn.org>

I would have a link to <http://www.findu.com/cgi-bin/find.cgi?KC6ETE-9> here
in my signature line, but due to the inability of sysadmins at TELOCITY to
differentiate a signature line from the text of an email, I am forbidden to
have it.

You are currently subscribed to aprrspec as: lyris.aprrspec@taprr.org
To unsubscribe send a blank email to leave-aprrspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: wallou@taprr.org

From bounce-aprrspec-11589@lists.taprr.org Tue Jul 17 14:38:44 2001
Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA21741
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 14:38:40 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 17 Jul 2001 15:38:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Curt Mills, WE7U" <BowHunter@mail.com>
Subject: [aprsspec] Re: Weather
In-Reply-To: <LYR11586-24770-2001.07.17-14.33.45--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-24780-2001.07.17-14.59.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10107171533350.518-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 17 Jul 2001, Curt Mills, WE7U wrote:

>
> Page 64 of the APRS spec talks about weather report format:
> Weather Questions:
> -----
> 1) Why are there two 's' fields defined, wind speed _and_ snow?
> Is one a typo and should have been a capital 'S'? Probably snow?

In the complete WX format, the WIND SPEED does not have a "s" format identifier since it is in a FIXED position. Thus if you see "s", then it is snow.

But then the Sprouls added the format for their verbose positionless Weather format and I think it does have an s...

> 2) Rainfall in last 24 hours. I assume this is intended to be a
> rolling count going backwards from the current time 24 hours, and not
> the amount of rain that was seen yesterday. "last 24 hours" implies
> a rolling count to me. I'm fairly sure on this one, just checking.

Yes. I think only the original APRSdos does this. Newer programs took the simpler approach of starting the count at midnight...

> 3) The "Other parameters" _letters_ are defined, but the number of
> bytes for each field are not.
> I'll assume 'L' has 4 bytes (L999) YES
> 's' has ?? bytes? Format? (s1.25, s100.99) NO. 3 fixed bytes
> '#' has ?? bytes? Units? Format? ##### 4 BYTES always
>
> 4) What is the "raw rain counter"? Is that the "total rain" counter
> that some weather stations provide, or the raw counts from the
> rain bucket over some time period? How many bytes for that field
> and in what format? 1/100 inch? Inches? Counts?

It is the current 4 digit count from that instrument. It is useless
unless the receipient is keeping the previous values for comaprison...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 14:43:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA21956
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 14:43:33 -0500 (CDT)
Message-Id: <LYR11589-24786-2001.07.17-15.04.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Weather
Date: Tue, 17 Jul 2001 15:42:44 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "Curt Mills" <hacker@tc.fluke.com>,
"Curt Mills, WE7U" <BowHunter@mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200107171942.MAA14088@falcon.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 7/17/01 3:20 PM David VanHorn (dvanhorn@cedar.net) wrote:

>Here's another one for you:

>

>How do you differentiate "No X" from "No sensor for X".

>Is your windspeed 0 because it really is, or because you don't have a sensor?

>

No sensor is indicated by ... (the number of dots matching the number of characters in the field).

>There are some potholes in this spec.

Yes, but this isn't one!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 14:48:11 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22164

for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 14:48:03 -0500 (CDT)

Message-Id: <LYR11589-24788-2001.07.17-15.09.03--

lyris.aprsspec#tapr.org@lists.tapr.org>

X-Sender: dvanhorn@mail.cedar.net

Date: Tue, 17 Jul 2001 14:47:42 -0500

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: David VanHorn <dvanhorn@cedar.net>

Subject: [aprsspec] Re: Weather

Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,

"Curt Mills, WE7U" <BowHunter@mail.com>,

Curt Mills <hacker@tc.fluke.com>

In-Reply-To: <Pine.GS0.4.10.10107171227430.15040-1000000@dogbert.tc.fluke.com>

References: <4.3.2.7.2.20010717141924.00de4e50@mail.cedar.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <4.3.2.7.2.20010717144527.02e35440@mail.cedar.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 12:28 PM 7/17/01 -0700, Curt Mills, WE7U wrote:

>On Tue, 17 Jul 2001, David VanHorn wrote:

>

> > How do you differentiate "No X" from "No sensor for X".

> > Is your windspeed 0 because it really is, or because you don't have a
> sensor?

>

>Well, the spec allows "..." or " " for the fields. It also allows
>any field to be absent, as long as it's not one of the few required
>fields at the beginning.

Is that defined as "no sensor"?

I see, for ex, weather stations with baro of 0.00.

Seems unlikely to be true, CNN would have been interested.

Windspeed of 0.00, where nearby stations are recording significant winds.
No sensor, Stuck, or ???

Wind direction of 0 where other stations nearby report significantly
different wind direction.

Same questions..

--

Dave's Engineering Page: <http://www.dvanhorn.org>

I would have a link to <http://www.findu.com/cgi-bin/find.cgi?KC6ETE-9> here
in my signature line, but due to the inability of sysadmins at TELOCITY to
differentiate a signature line from the text of an email, I am forbidden to
have it.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 14:57:52 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA23860

for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 14:57:48 -0500 (CDT)

Message-Id: <LYR11589-24790-2001.07.17-15.18.50--

lyris.aprsspec@tapr.org>

X-Sender: dvanhorn@mail.cedar.net
Date: Tue, 17 Jul 2001 14:57:24 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Weather
Cc: "Curt Mills" <hacker@tc.fluke.com>,
"Curt Mills, WE7U" <BowHunter@mail.com>
In-Reply-To: <LYR11608-24786-2001.07.17-15.04.26--dvanhorn#cedar.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4.3.2.7.2.20010717145533.02d6ac70@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 03:42 PM 7/17/01 -0400, Steve Dimse wrote:

>On 7/17/01 3:20 PM David VanHorn (dvanhorn@cedar.net) wrote:

>

> >Here's another one for you:

> >

> >How do you differentiate "No X" from "No sensor for X".

> >Is your windspeed 0 because it really is, or because you don't have a
> sensor?

> >

>No sensor is indicated by ... (the number of dots matching the number of
>characters in the field).

Is this being implemented in the various packages?

A baro of 0.00 would be pretty amazing.

This was one of Dr Arnold's criticisms of the system, that bad, and obviously wrong data was being sent out.

--

Dave's Engineering Page: <http://www.dvanhorn.org>

I would have a link to <http://www.findu.com/cgi-bin/find.cgi?KC6ETE-9> here in my signature line, but due to the inability of sysadmins at TELOCITY to differentiate a signature line from the text of an email, I am forbidden to have it.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 15:08:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA24417
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 15:08:30 -0500 (CDT)
Message-Id: <LYR11589-24791-2001.07.17-15.29.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: Weather
Date: Tue, 17 Jul 2001 16:08:05 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "Curt Mills" <hacker@tc.fluke.com>,
"Curt Mills, WE7U" <BowHunter@mail.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200107172008.NAA16702@swan.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 7/17/01 3:57 PM David VanHorn (dvanhorn@cedar.net) wrote:

>>No sensor is indicated by ... (the number of dots matching the number of
>>characters in the field).

>

>Is this being implemented in the various packages?

>A baro of 0.00 would be pretty amazing.

>

Yes, it is implemented in quite a few systems. findu correctly interprets
this, if you look at the CW page for example:

<http://www.findu.com/cgi-bin/cw.cgi>

You see that some squares in the table, for example the baro at CW0012,
are blank, indicating a NULL value, something quite distinct from a zero.

>This was one of Dr Arnold's criticisms of the system, that bad, and
>obviously wrong data was being sent out.

That still happens, but often there are other reasons. For example, when a U2k powers up, until a calibration is entered, it sends bogus data. The sensor is there, so the is not sent, but the data is bad. If you look at a lot of the weather stations, there are lots of poorly maintained units out there that continue to send bad data. In the Keys, with the county owned weather system (W7IUC-*), only half are currently sending good data. Typically they rush to repair them when a storm is threatening, otherwise they ignore them.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 17:52:20 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA11733
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 17:52:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 17 Jul 2001 18:49:34 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Curt Mills, WE7U" <BowHunter@mail.com>
Subject: [aprsspec] Re: Weather
In-Reply-To: <Pine.GS0.4.10.10107171359390.15040-1000000@dogbert.tc.fluke.com>
Message-ID: <LYR11589-24826-2001.07.17-18.12.04--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10107171847260.13948-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 17 Jul 2001, Curt Mills, WE7U wrote:

> Ok. So we can transmit inches of snow from "s00" to "s99", and not
> fractional inches? Is that intended to be snow base or fresh snow?
> If fresh snow, what timeframe?

I meant sXXX so 0.0 to 9.9 then 10 to 999 inches...

>

> You deleted the below line from your response. 'l' is in the spec
> also under the "Other parameters" heading, supposed to be luminosity
> greater than 1000. Not knowing the range for luminosity, do I assume
> that a 1000 gets added to a three digit value to give the final
> result for the 'l' field?

I think it is lxxx and if is greater than 1000 then it becomes Lxxx
where you can think of the L as the onethousands digit...

I dont have it in front of me, but that is the gyst of it..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 17:59:15 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA12099
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 17:59:07 -0500 (CDT)
Date: Tue, 17 Jul 2001 14:13:11 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Curt Mills, WE7U" <BowHunter@mail.com>,
Curt Mills <hacker@tc.fluke.com>
Subject: [aprsspec] Re: Weather
In-Reply-To: <Pine.GS0.4.05L.10107171533350.518-1000000@arctic>
Message-ID: <LYR11589-24828-2001.07.17-18.20.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107171359390.15040-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 17 Jul 2001, Bob Bruninga wrote:

> On Tue, 17 Jul 2001, Curt Mills, WE7U wrote:

>

> > 1) Why are there two 's' fields defined, wind speed _and_ snow?

> > Is one a typo and should have been a capital 'S'? Probably snow?

>

> In the complete WX format, the WIND SPEED does not have a "s" format identifier since it is in a FIXED position. Thus if you see "s", then it is snow.

>

> But then the Sprouls added the format for their verbose positionless

> Weather format and I think it does have an s...

That's going to be rather confusing in the future. Both wind speed and snow in the same packet have the same identifier for the field.

> > 2) Rainfall in last 24 hours. I assume this is intended to be a rolling count going backwards from the current time 24 hours, and not the amount of rain that was seen yesterday. "last 24 hours" implies a rolling count to me. I'm fairly sure on this one, just checking.

>

> Yes. I think only the original APRSdos does this. Newer programs took the simpler approach of starting the count at midnight...

Xastir does this (as of Saturday): Keeps 24 hourly data buckets and uses them to come up with the 24-hour rain and the since-midnight rain totals. The 24-hour rain is the difference between current rain total and the lowest rain_total stored in the 24 buckets. Seemed like the right way to do it.

> > 3) The "Other parameters" _letters_ are defined, but the number of bytes for each field are not.

> > I'll assume 'L' has 4 bytes (L999) YES

> > 's' has ?? bytes? Format? (s1.25, s100.99) NO. 3 fixed bytes

Ok. So we can transmit inches of snow from "s00" to "s99", and not fractional inches? Is that intended to be snow base or fresh snow? If fresh snow, what timeframe?

You deleted the below line from your response. 'l' is in the spec also under the "Other parameters" heading, supposed to be luminosity greater than 1000. Not knowing the range for luminosity, do I assume that a 1000 gets added to a three digit value to give the final result for the 'l' field?

> > 'l' has ?? bytes? (11000, 110000, 11000000000)

So a value of 1500 would be encoded as "1500" ?? Can luminosity ever be greater than 1999?

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 21:59:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA29573
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 21:59:04 -0500 (CDT)
Date: Tue, 17 Jul 2001 12:28:57 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Curt Mills, WE7U" <BowHunter@mail.com>,
Curt Mills <hacker@tc.fluke.com>
Subject: [aprsspec] Re: Weather
In-Reply-To: <4.3.2.7.2.20010717141924.00de4e50@mail.cedar.net>
Message-ID: <LYR11589-24867-2001.07.17-22.20.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107171227430.15040-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 17 Jul 2001, David VanHorn wrote:

> How do you differentiate "No X" from "No sensor for X".

> Is your windspeed 0 because it really is, or because you don't have a sensor?

Well, the spec allows "... " or " " for the fields. It also allows any field to be absent, as long as it's not one of the few required fields at the beginning.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 17 21:59:12 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA29574
for <lyris.aprsspec@tapr.org>; Tue, 17 Jul 2001 21:59:04 -0500 (CDT)
Date: Tue, 17 Jul 2001 13:12:04 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <BowHunter@mail.com>
Subject: [aprsspec] Area Objects
Message-ID: <LYR11589-24868-2001.07.17-22.20.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107171310560.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

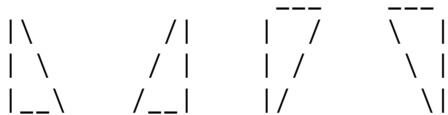
Area Object Questions:

1) Does anyone have any info yet about Area Objects? We still have no information about how to implement circles, ellipses, or triangles. The starting "corner" point is the main question here: Circles and ellipses have a surprising lack of corner points, and

triangles definitely need some more explanation in the spec as well. Perhaps circles/ellipses are defined with the lat/long point being the center of the object? The upper left corner point of the box the circle/ellipse would fit inside? Same for rectangles: is the lat/long point the right-angle corner, or perhaps the upper left corner of the rectangle it would fit inside?
Bob?

2) What sort of triangle? What do the transmitted numbers mean for a triangle? Right-angle triangle? Isosceles triangle? Which corner is the reference point? Perhaps it could be defined as an isosceles triangle with the right-angle being the reference corner, the two transmitted parameters defining: 1) The rotation angle, and 2) The length of the equal sides in feet/meters?
Bob?

The example given in the spec for triangles would seem to imply a right-angle triangle, with the right-angle at the lat/long reference point, and two sides of variable lengths going vertically and horizontally from that point. This means only four triangles could be drawn, with sides of different lengths:



End result: I wouldn't be able to draw a triangle of any other rotation. Imagine a search where I knew the direction of travel to be northerly due to tracks being found, but I couldn't draw a triangle on the search area that angled upwards (imagine a funnel pointing straight down)?

Actually the spec also says the lat/long point defines the upper left corner of the object, and that the object is drawn to the right and down from this point. That would mean we could draw one and only one rotation of triangle, but of different sizes (third triangle in the diagrams above).

3) For circles: Does it have to be a circle in lat/long, or could it be a more useful circle with a constant radius (distance-wise)? The spec says lat/long, which isn't as useful as say a circle of 0.5 miles radius. The main reason is that it will look like an ellipse instead of a circle most places in the world. In order to get objects that look like circles on the map screen we have to draw ellipses and carefully calculate the lat/long distances so that it ends up a circle at the particular latitude. A real pain. I'd much rather see circles defined with a distance parameter in feet or

meters, and perhaps keep ellipses defined in terms of lat/long.
Bob?

4) Unless circles and ellipses are defined differently, why have
circles at all? Ellipses can be circles.
Bob?

One of the shareware APRS programs appears to have incorrect sizing
for the area objects, and they also go the wrong direction from the
corner point w.r.t. what the spec says.
??

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 18 05:01:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA09912
for <lyris.aprsspec@tapr.org>; Wed, 18 Jul 2001 05:01:00 -0500 (CDT)
From: Paul Keinanen <keinanen@sci.fi>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Weather
Date: Wed, 18 Jul 2001 13:03:16 +0300
Message-ID: <LYR11589-24911-2001.07.18-05.21.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
References: <Pine.GS0.4.05L.10107171533350.518-1000000@arctic>
<LYR13206-24828-2001.07.17-18.20.05--Paul.Keinanen#sci.fi@lists.tapr.org>
In-Reply-To: <LYR13206-24828-2001.07.17-18.20.05--
Paul.Keinanen#sci.fi@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <famaltsq9v19t7gdc7n7v08nu6egi91277@4ax.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 17 Jul 2001 14:13:11 -0700 (PDT), "Curt Mills, WE7U"
<hacker@tc.fluke.com> wrote:

>So a value of 1500 would be encoded as "1500" ?? Can luminosity
>ever be greater than 1999?

Certainly it is going to be greater than that in about 5E9 years, when
the Sun is expanding to become a red giant star and engulfing the
inner planets :-).

However, if that luminosity is over that anytime soon, we are in very
very great troubles and some APRS message overflows are the least
things to worry in that situation.

The full spectrum solar flux density at Earth's orbit (150 million km)
is about 1400 W/m² and since the atmosphere filters out all X-ray,
most UV, a large part of mid IR and attenuates also the visible light
and the thermal IR window, so only about 1000 W/m² will reach the
surface.

If a solar panel with 10 % efficiency is aimed towards the sun, you
should expect up to 100 W of electric power for each square meter of
panels.

I assume these luminosity figures in the APRS message refers to
luminosity perpendicular to the sun rays and not the luminosity
falling on a square meter of horizontal ground. Is this assumption
correct ?

Paul OH3LWR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 18 07:33:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA19468
for <lyris.aprsspec@tapr.org>; Wed, 18 Jul 2001 07:33:33 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Wed, 18 Jul 2001 08:33:20 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>,
"Curt Mills, WE7U" <BowHunter@mail.com>
Subject: [aprsspec] Re: Area Objects
In-Reply-To: <LYR11586-24868-2001.07.17-22.20.11--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-24918-2001.07.18-07.54.41--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10107180823250.2026-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 17 Jul 2001, Curt Mills, WE7U wrote:

> Area Object Questions:
> -----
> 1) Does anyone have any info yet about Area Objects? We still have
> no information about how to implement circles, ellipses, or
> triangles. The starting "corner" point is the main question here:
> Circles and ellipses have a surprising lack of corner points, and
> triangles definitely need some more explanation in the spec as well.
> Perhaps circles/ellipses are defined with the lat/long point being
> the center of the object? The upper left corner point of the box
> the circle/ellipse would fit inside?

Yes, that is correct

> Same for rectangles: is the lat/long point the [LOWER]right-angle
> corner, or perhaps the upper left corner of the rectangle it would fit
> inside?

Yes. Lower right. the offsets then define the distance back to the upper
left.

> 2) What sort of triangle? What do the transmitted numbers mean for a
> triangle? Right-angle triangle? Isosceles triangle? Which corner
> is the reference point? Perhaps it could be defined as an isosceles
> triangle with the right-angle being the reference corner, the two

> transmitted parameters defining: 1) The rotation angle, and 2) The
> length of the equal sides in feet/meters?

The triangle is just a specialized LINE. Draw the line using the rules for LINES. Then make it into an isosceles triangle symmetrical about the vertical axis. Thus you can only draw isosceles triangles and only with the base down...

> End result: I wouldn't be able to draw a triangle of any other
> rotation. Imagine a search where I knew the direction of travel
> to be northerly due to tracks being found, but I couldn't draw
> a triangle on the search area that angled upwards (imagine a
> funnel pointing straight down)?

Use the LINE with a WIDTH. Im not sure that any of the other authors implemented LINE WIDTHS, but APRSdos did. This way you can draw a rectangle at any angle, showing a corridor or other such shape...

> 3) For circles: Does it have to be a circle in lat/long, or could it
> be a more useful circle with a constant radius (distance-wise)?

COnstant radius. APRSdos always scales a map so that there is no distortion based on latitude. THus, a circle is a circle...

> spec says lat/long, which isn't as useful as say a circle of 0.5
> miles radius. The main reason is that it will look like an ellipse
> instead of a circle most places in the world.

a 50 mile circle is an ellipse on any mercator projection map. That is why APRSdos scales all map screens to latitude to eliminate that distortion. Most other authors have not done that.

It doesnt matter what the radius of the circle is defined in. It can be inches, feet furlongs, or minutes of latitude. It is still a circle...

> rather see circles defined with a distance parameter in feet or
> meters, and perhaps keep ellipses defined in terms of lat/long.

It is a constant radius.,

> 4) Unless circles and ellipses are defined differently, why have
> circles at all? Ellipses can be circles.

Actually, we never did ellipses. The only drefinitiosn in APRS are circles, lines boxes and triangles. There was no interest in doing ellipses..

> One of the shareware APRS programs appears to have incorrect sizing

> for the area objects, and they also go the wrong direction from the
> corner point w.r.t. what the spec says.

Yep, I have been fighting this for years. There seems to be
little interest in fixing it...

Bob

> ??
>
> Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
> Senior Methods Engineer/SysAdmin
> "Lotto: A tax on people who are bad at math." -- unknown
> "Windows: Microsoft's tax on computer illiterates." -- WE7U
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org
>
>

de WB4APR@amsat.org, Bob

ISS-APRS FAQ: <http://web.usna.navy.mil/~bruninga/iss-faq.html>
PCsat Design <http://web.usna.navy.mil/~bruninga/pcsat.html>
CUBESAT Designs <http://web.usna.navy.mil/~bruninga/cubesat.html>
APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>
APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Wed Jul 18 16:18:36 2001
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id QAA13886
for <lyris.aprsspec@tapir.org>; Wed, 18 Jul 2001 16:18:36 -0500 (CDT)
Date: Wed, 18 Jul 2001 14:18:21 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>

Subject: [aprsspec] Re: Area Objects
In-Reply-To: <Pine.GS0.4.05L.10107180823250.2026-1000000@arctic>
Message-ID: <LYR11589-25010-2001.07.18-16.39.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.10.10107181352550.15040-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 18 Jul 2001, Bob Bruninga wrote:

> On Tue, 17 Jul 2001, Curt Mills, WE7U wrote:
>
> > Area Object Questions:
> > -----
> > Perhaps circles/ellipses are defined with the lat/long point being
> > the center of the object? The upper left corner point of the box
> > the circle/ellipse would fit inside?
>
> Yes, that is correct

Which? I asked two questions that were entirely different. This is an important point for me.

Is the point:

- 1) The center of the circle?
- 2) The upper left corner point of the box it would fit inside?
- 3) The lower right corner point of the box it would fit inside?

Which one?

> The triangle is just a specialized LINE. Draw the line using the rules
> for LINES. THEN make it into an isosceles triangle symmetrical about the
> vertical axis. Thus you can only draw isosceles triangles and only with
> the base down...

Bummer. That makes them next to useless for what I was intending. I'd much rather have an isosceles triangle with a rotation angle and a length. I can always make them with line objects, but it's more complicated.

> > 3) For circles: Does it have to be a circle in lat/long, or could it
> > be a more useful circle with a constant radius (distance-wise)?
>
> COnstant radius. APRSdos always scales a map so that there is no
> distortion based on latitude. THus, a circle is a circle...

Constant radius in distance is not the same as constant radius in lat/long. For Xastir we have the hooks in there to be able to scale the X/Y so that the distance is correct in either direction, no matter where you are on the globe. The formulas aren't in there to calculate this properly yet, but they probably will be soon.

A circle in our case would be defined with a radius in a distance measurement, not in a lat/long measurement. One defined with lat/long would be an ellipse, at least where I live.

I'm most interested currently in SAR applications, where the commander might ask me to put a 1-mile circle around the point last seen. I'd certainly rather have a circle there than an ellipse which was caused by the "circle" being defined in lat/long.

For me to draw a circle defined in lat/long, I'd have to draw an ellipse and carefully compute the two radius (radii?) for my latitude so that it came out as a circle. Below you mention though that ellipses were never part of any APRS software. I have no way to draw a circle on my screen unless I implement ellipses.

> It doesnt matter what the radius of the circle is defined in. It can be
> inches, feet furlongs, or minutes of latitude. It is still a circle...

Disagree. Depends on the map projection entirely. It may look like a circle on your screen, but not on any equi-distant projection. A circle for me would look like an ellipse for you.

> Actually, we never did elipses. The only drefinitiosn in APRS are
> circles, lines boxes and triangles. There was no interest in doing
> elipses..

I'll assume you meant APRSdos.

Then the APRS spec is wrong, or someone was getting ahead of themselves in defining things that don't exist in any APRS software.

Is anyone collecting bugs/omissions in the spec with the intention of

correcting them someday? I've learned things about objects and weather recently and would like to see them get into the spec someday. I suppose Ian is burned out on spec writing by now.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 19 13:27:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA28579
for <lyris.aprsspec@tapr.org>; Thu, 19 Jul 2001 13:27:21 -0500 (CDT)
Date: Thu, 19 Jul 2001 11:27:10 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects
In-Reply-To: <LYR12892-25010-2001.07.18-16.39.43--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-25182-2001.07.19-13.48.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107191126060.15040-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 18 Jul 2001, Curt Mills, WE7U wrote:

> Is anyone collecting bugs/omissions in the spec with the intention of
> correcting them someday? I've learned things about objects and
> weather recently and would like to see them get into the spec
> someday. I suppose Ian is burned out on spec writing by now.

Can I judge by the overwhelming response that there really isn't

anyone doing this?

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 19 17:31:14 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA18610

for <lyris.aprsspec@tapr.org>; Thu, 19 Jul 2001 17:31:10 -0500 (CDT)

Errors-To: <jeff@aerodata.net>

Message-ID: <LYR11589-25233-2001.07.19-17.52.21--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Thu, 19 Jul 2001 18:32:13 -0400

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Area Objects

References: <LYR22299-25182-2001.07.19-13.48.33--jeff#aerodata.net@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <3B575FED.E3E806F9@aerodata.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

"Curt Mills, WE7U" wrote:

> On Wed, 18 Jul 2001, Curt Mills, WE7U wrote:

> > Is anyone collecting bugs/omissions in the spec with the intention of

> > correcting them someday? I've learned things about objects and
> > weather recently and would like to see them get into the spec
> > someday. I suppose Ian is burned out on spec writing by now.

> Can I judge by the overwhelming response that there really isn't
> anyone doing this?

I'd say that is a good guess.

The problem is, by appearances, it would seem the APRS-WG no longer exists, although some might claim otherwise. One thing is certain, the majority of members are now inactive and new volunteers to replace them have been turned away (or more likely ignored). I see no disgrace in resigning from a organization that one has done a good job serving on, yet now lack the interest/time to actively contribute to it.

Lacking that, probably the thing to do is form a non-profit corporation for the purpose of administering the spec. It might be possible to even re-use the existing document as the copyright claimant (APRS-WG) is not a legal entity (although that could change, and in any case would likely not be a good course of action to pursue.... best to ask first).

Hmmmm.... I know CVS can be used in non source code applications... maybe it is time to source forge this document/activity so those that are interested can participate.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 19 18:48:49 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25673
for <lyris.aprsspec@tapr.org>; Thu, 19 Jul 2001 18:48:47 -0500 (CDT)
Date: Thu, 19 Jul 2001 16:48:34 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects

In-Reply-To: <3B575FED.E3E806F9@aerodata.net>
Message-ID: <LYR11589-25247-2001.07.19-19.09.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10107191647520.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 19 Jul 2001, Jeff King wrote:

> Hmmmm..... I know CVS can be used in non source code applications... maybe it is
> time to source forge this document/activity so those that are interested can
participate.

Now THAT is an excellent idea!

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 05:50:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA11309
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 05:50:43 -0500 (CDT)
Date: Wed, 25 Jul 2001 5:50:33
Subject: [aprsspec] Altitude in comment field
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Antônio Sérgio Sena" <asena@bigfoot.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-26116-2001.07.25-06.12.09--
lyris.aprsspec@tapr.org@lists.tapr.org>
Precedence: bulk

Hello people!

I am testing some APRS packet beaconing and i am having some problems.
I'll give you some examples, maybe you can help me:

With !3853.73N/009.02.07W>010/005 /A=000123 UIView recognizes the Car,
but does not show Course/Speed and Altitude.

With @231010z3853.73/009.02.07W>010/005 /A=000123 UIView recognizes
the Car, shows Course/Speed but does not show the Altitude.
I tested this packet with WinAprs and the same happens.

I need Altitude !!!

I went through all the protocol, and found that these packets are ok. But i
may be wrong.

Can anyone help me ??

Thanks for it!

73 de CT2GPW, Sena

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 07:24:05 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA17766
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 07:24:04 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 25 Jul 2001 08:23:50 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
Roger Barker <roger@peaksys.co.uk>,
Keith Sproul <ksproul@vger.rutgers.edu>,

Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: Altitude in comment field
In-Reply-To: <LYR11586-26116-2001.07.25-06.12.09--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-26122-2001.07.25-07.45.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=X-UNKNOWN
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10107250821110.5556-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from QUOTED-PRINTABLE to 8bit by tapr.org id HAA17766

The longitude in both is screwed up...

Bob

On Wed, 25 Jul 2001, Ant nio S rgio Sena wrote:

> I am testing some APRS packet beaconing and i am having some problems.
> I'll give you some examples, maybe you can help me:
>
> With !3853.73N/009.02.07W>010/005 /A=000123 UIView recognizes the Car,
> but does not show Course/Speed and Altitude.
>
> With @231010z3853.73/009.02.07W>010/005 /A=000123 UIView recognizes
> the Car, shows Course/Speed but does not show the Altitude.
> I tested this packet with WinAprs and the same happens.
>
> I need Altitude !!!
>
> I went through all the protocol, and found that these packets are ok. But i
> may be wrong.
> Can anyone help me ??
> Thanks for it!
>
>
> 73 de CT2GPW, Sena
>
>
>

> ---
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

de WB4APR@amsat.org, Bob

ISS-APRS FAQ: <http://web.usna.navy.mil/~bruninga/iss-faq.html>
PCsat Design <http://web.usna.navy.mil/~bruninga/pcsat.html>
CUBESAT Designs <http://web.usna.navy.mil/~bruninga/cubesat.html>
APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>
APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Jul 25 08:26:45 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21942
for <lyris.aprsspec@tappr.org>; Wed, 25 Jul 2001 08:26:40 -0500 (CDT)
From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Date: Wed, 25 Jul 2001 14:26:18 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Altitude in comment field
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26132-2001.07.25-08.48.03--
lyris.aprsspec#tappr.org@lists.tappr.org>
Priority: normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <3B5ED70A.19908.6011D3B@localhost>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello people!

I am testing some APRS packet beaconing and i am having some problems. I'll give you some examples, maybe you can help me:

With !3853.73N/00902.07W>010/005 /A=000123 UIView recognizes the Car, but does not show Course/Speed and Altitude.

With @231010z3853.73/00902.07W>010/005 /A=000123 UIView recognizes the Car, shows Course/Speed but does not show the Altitude. I tested this packet with WinAprs and the same happens.

I need Altitude !!!

I went through all the protocol, and found that these packets are ok. But i may be wrong. Can anyone help me ?? Thanks for it!

73 de CT2GPW, Sena

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 08:27:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21977
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 08:27:04 -0500 (CDT)

From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Date: Wed, 25 Jul 2001 14:26:18 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=ISO-8859-1
Subject: [aprsspec] Re: Altitude in comment field
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26133-2001.07.25-08.48.13--
lyris.aprsspec#tappr.org@lists.tappr.org>
Priority: normal
References: <LYR11586-26116-2001.07.25-06.12.09--
bruninga#nadm.navy.mil@lists.tappr.org>
In-reply-to: <Pine.GS0.4.05L.10107250821110.5556-1000000@arctic>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B5ED70A.19072.6011D9B@localhost>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from Quoted-printable to 8bit by tappr.org id IAA21977

Thats not the problem...

I made a mistake when i wrote the email.

Of course, it should be 3843.73N 00902.07W.

Sena

> The longitude in both is screwed up...
>
>
> Bob
>
> On Wed, 25 Jul 2001, Ant nio S rgio Sena wrote:
>
> > I am testing some APRS packet beaconing and i am having some problems.
> > I'll give you some examples, maybe you can help me:
> >
> > With !3853.73N/009.02.07W>010/005 /A=000123 UIView recognizes the Car,
> > but does not show Course/Speed and Altitude.
> >

> > With @231010z3853.73/009.02.07W>010/005 /A=000123 UIView recognizes
> > the Car, shows Course/Speed but does not show the Altitude.
> > I tested this packet with WinAprs and the same happens.
> >
> > I need Altitude !!!
> >
> > I went through all the protocol, and found that these packets are ok. But i
> > may be wrong.
> > Can anyone help me ??
> > Thanks for it!
> >
> >
> > 73 de CT2GPW, Sena
> >
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> > To unsubscribe send a blank email to leave-aprsspec-11586A@lists.tapr.org
> > Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
> >
> >
>
> de WB4APR@amsat.org, Bob
>
> ISS-APRS FAQ: <http://web.usna.navy.mil/~bruninga/iss-faq.html>
> PCsat Design <http://web.usna.navy.mil/~bruninga/pcsat.html>
> CUBESAT Designs <http://web.usna.navy.mil/~bruninga/cubesat.html>
> APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>
> APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>
> MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>
>
>

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 11:18:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06353
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 11:18:01 -0500 (CDT)
Message-ID: <LYR11589-26159-2001.07.25-11.39.22--
lyris.aprsspec@tapr.org>
From: "Jeff Brenton" <ka9vnmv@dididahdahdidit.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11586-26116-2001.07.25-06.12.09--
bruninga@nadm.navy.mil> <LYR23419-26133-2001.07.25-08.48.13--
ka9vnmv@dididahdahdidit.com>
Subject: [aprsspec] Re: Altitude in comment field
Date: Wed, 25 Jul 2001 11:17:30 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <006401c11525\$538e6a20\$1000a8c0@rolltowel.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have seen that spaces in front of the /A= sometimes causes programs to miss the altitude. I separated the altitude information from the comment field in the digipeater database specifically so that I could control where it is placed in the posit files to correct a multitude of such errors received in the source data...

It may also be that UIVIEW is expecting the altitude to be proceeded by a PHGxxxx value; try your beacons as follows, and report the results:

!3853.73N/00902.07W>010/005/A=000123

!3853.73N/00902.07W>010/005PHG1110/A=000123

The altitude should not be consider part of the comment field, but rather an optional portion of the fixed-format position. At least a few programs consider it this way, whether the specification says so or not.

Jeff Brenton, Ham radio call KA9VNV

Questionable web page: <http://dididahdahdidit.com>

Northern Illinois APRS Network: <http://nian.aprs.net>

Engineered Software Products: <http://espi.com>

My goal in life: To be remembered as someone who always stated what should have been obvious to everyone in the first place.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 13:10:22 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15846

for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 13:10:17 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Wed, 25 Jul 2001 14:09:36 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>

X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Altitude in comment field (fwd)

Message-ID: <LYR11589-26179-2001.07.25-13.31.35--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GS0.4.05L.10107251409050.8424-1000000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Glad someone is checking things. The location of the "/A=" is supposed to be allowed anywhere after the ICON character.... Since that is where the optional COMMENT string may begin... (IMHO).... Bob

On Wed, 25 Jul 2001, Jeff Brenton wrote:

> I have seen that spaces in front of the /A= sometimes causes programs to
> miss the altitude. I separated the altitude information from the comment
> field in the digipeater database specifically so that I could control where
> it is placed in the posit files to correct a multitude of such errors
> received in the source data...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 14:04:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA20528
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 14:03:57 -0500 (CDT)
Date: Wed, 25 Jul 2001 12:03:40 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects (fwd)
Message-ID: <LYR11589-26184-2001.07.25-14.25.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.10.10107251151050.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is part of a private reply from Bob. I asked his permission
to post portions of it to the list.

Perhaps someday if a volunteer shows up to put out a revised spec,
this info and the recent weather info about snow fields, luminosity,
and raw rain counter can be put into the spec. Since there are no
examples for these, the number of bytes in each field is undefined
in the spec. Also the "s" flag for Snow conflicts with another
implementation regarding sustained one-minute wind speed.

Note that the spec does not fully specify the fields for the additional weather fields possible (details from Bob in an earlier message to the aprsspec list), and for Area Objects, ellipses were never implemented, and the reference "corner" and direction for the offsets for all Area Objects/Items is incorrect in the spec. The spec also doesn't specify how to define a triangle or a circle properly. Circles have no corners, and triangles can be defined many ways. See the below and earlier messages from Bob in the aprsspec list for the definitions.

Also consider putting in a reference packet for each type of object so that the sizes and reference points can be checked in a new APRS implementation. We're currently noticing that our objects and Bob's objects are of different sizes. Wah.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

----- Forwarded message -----
Date: Fri, 20 Jul 2001 20:21:57 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
Subject: Re: [aprsspec] Re: Area Objects (fwd)

On Fri, 20 Jul 2001, Curt Mills, WE7U wrote:

> > > Perhaps circles/ellipses are defined with the lat/long point being
> > > the center of the object? The upper left corner point of the box
> > > the circle/ellipse would fit inside?
> >
> > Yes, that is correct
>
> Which? I asked two questions that were entirely different. This is
> an important point for me.

No, I only see one answer. Yes..

The point is the center. The offset is the upper left corner defined as the corner of the box it fits into...

> Is the point:
> 1) The center of the circle?
> 2) The upper left corner point of the box it would fit inside?
> 3) The lower right corner point of the box it would fit inside?
>

> Which one?

Your original question I don't recall seeing any reference to the lower right. If so, it is not involved.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 25 18:45:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA11460
for <lyris.aprsspec@tapr.org>; Wed, 25 Jul 2001 18:45:06 -0500 (CDT)
User-Agent: Microsoft-Entourage/9.0.1.3108
Date: Wed, 25 Jul 2001 19:43:40 -0400
Subject: [aprsspec] Rules to SIG by
From: Stan Horzepa <stanzepa@mail2.nai.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-26234-2001.07.25-19.06.19--
lyris.aprsspec@tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <B784D1EC.737C%stanzepa@ct2.nai.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA11460

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topica≤ then you are violating this rule.
- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzepa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 26 07:33:39 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA13652
for <lyris.aprsspec@tapr.org>; Thu, 26 Jul 2001 07:33:33 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 26 Jul 2001 08:33:12 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects (fwd)
In-Reply-To: <LYR11586-26184-2001.07.25-14.25.20--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-26303-2001.07.26-07.54.58--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.05L.10107260828450.23758-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here are the codes for two test objects:

```
;CIRCLE *071423z3900.00N/07200.00W/15211325 with a radius of 22.3 mi  
;RECTANGLE*071424z3900.00N/07200.00W/19321331 47mi high by 35 mi wide
```

The LINE would be the same as the diagonal for the box and the Triangle would be an isoceses triange made out of the diagonal and another side symetrical about the vertical axis.

Hope that helps

de WB4APR@amsat.org, Bob

ISS-APRS FAQ: <http://web.usna.navy.mil/~bruninga/iss-faq.html>

PCsat Design <http://web.usna.navy.mil/~bruninga/pcsat.html>
CUBESAT Designs <http://web.usna.navy.mil/~bruninga/cubesat.html>
APRS LIVE pages <http://web.usna.navy.mil/~bruninga/aprs.html>
APRS SATELLITES <http://web.usna.navy.mil/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 26 09:14:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA20136
for <lyris.aprsspec@tapr.org>; Thu, 26 Jul 2001 09:14:41 -0500 (CDT)
From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Thu, 26 Jul 2001 15:14:09 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Re: Altitude in comment field
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26316-2001.07.26-09.36.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
Priority: normal
In-reply-to: <006401c11525\$538e6a20\$1000a8c0@rolltowel.com>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6033C1.2919.1984AB@localhost>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I've tried also without the space in front of the /A=, and it turned out the same.

I dont want to use the PHGxxxx, because this is a mobile beacon and if there is an Altitude /A= described and available in the APRS protocol, why shouldnt we use it ??

I guess the problem remains in the APRS software out there..... just a guess....

73 de Sena, CT2GPW

I have seen that spaces in front of the /A= sometimes causes programs to
> miss the altitude. I separated the altitude information from the comment
> field in the digipeater database specifically so that I could control where
> it is placed in the posit files to correct a multitude of such errors
> received in the source data...
>
> It may also be that UIView is expecting the altitude to be proceeded by a
> PHGxxxx value; try your beacons as follows, and report the results:
>
> !3853.73N/00902.07W>010/005/A=000123
> !3853.73N/00902.07W>010/005PHG1110/A=000123
>
> The altitude should not be consider part of the comment field, but rather
> an optional portion of the fixed-format position. At least a few programs
> consider it this way, whether the specification says so or not.

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 26 09:15:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA20158
for <lyris.aprsspec@tapr.org>; Thu, 26 Jul 2001 09:14:55 -0500 (CDT)
From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Thu, 26 Jul 2001 15:14:09 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Re: Altitude in comment field (fwd)
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26317-2001.07.26-09.36.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Priority: normal
In-reply-to: <LYR20030-26179-2001.07.25-13.31.35--
asena#bigfoot.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6033C1.417.198668@localhost>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

So... we have a problem with the APRS user software.... Lets wait and see if they fix it.

> Glad someone is checking things. The location of the "/A=" is supposed to
> be allowed anywhere after the ICON character.... Since that is
> where the optional COMMENT string may begin... (IMHO).... Bob
>

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 26 11:42:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA03362
for <lyris.aprsspec@tapr.org>; Thu, 26 Jul 2001 11:42:05 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 26 Jul 2001 12:41:51 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Altitude in comment field
In-Reply-To: <LYR11586-26317-2001.07.26-09.36.20--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-26345-2001.07.26-12.03.33--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10107261237470.14227-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 26 Jul 2001, Antonio Sergio Sena wrote:

> So... we have a problem with the APRS user software.... Lets wait and
> see if they fix it.

Usually that technique does not work... APRS programs have to do an awful lot of parsing and display. There are probably hundreds of combinations. You may find something that the author has not.

If you do not communicate this to the original author of the program so that he is personally aware of what you are seeing, then the chances are very small that he is going to ever find the little bug you are seeing. And with the hundreds of other things on his TO-DO list, it probably is way down the list.

So, the authors all like to fix their programs, but they need feedback from the users. Give them the full details and I bet you will find each of them will be more than happy to work with you to fix it. With 200 EMail's a day on the APRS SIG's, do not expect a complaint there to be read by an author. Too easy to miss.

If you see a bug, write the author directly...
I bet you will be amazed at the results...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 26 17:13:07 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA06145
for <lyris.aprsspec@tapr.org>; Thu, 26 Jul 2001 17:13:06 -0500 (CDT)
Message-ID: <LYR11589-26392-2001.07.26-17.34.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Thu, 26 Jul 2001 18:14:33 -0400
From: "E. Tupis W2EV" <w2ev@rochester.rr.com>
Reply-To: w2ev@arrl.net
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Altitude in comment field
References: <LYR21978-26316-2001.07.26-09.36.04--w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B609649.C7810859@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Antonio,
Do this, please: Open a UI-View terminal window. Select the text from that window. Copy it. Paste it into an eMail and send it to the list. Do not hand-transcribe it (due to errors that may occur). Once it is examined exactly as you receive it, we can help to diagnose it better for you.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jul 27 04:56:58 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id EAA06664
for <lyris.aprsspec@tappr.org>; Fri, 27 Jul 2001 04:56:56 -0500 (CDT)
From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Date: Fri, 27 Jul 2001 10:56:34 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Re: Altitude in comment field
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26453-2001.07.27-05.18.25--lyris.aprsspec#tappr.org@lists.tappr.org>
Priority: normal
In-reply-to: <3B609649.C7810859@rochester.rr.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6148E2.19154.4542107@localhost>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is what i am TXing,

@3853.73N/00902.07W>123/050/A=001234

Beware of!! WinAprs works fine, but UIView does not.
I have already sent an email to Roger Barker, UIView, so he can know what i found.

73 de Sena, CT2GPW

> Antonio,
> Do this, please: Open a UI-View terminal window. Select the text from
> that window. Copy it. Paste it into an eMail and send it to the list.
> Do not hand-transcribe it (due to errors that may occur). Once it is
> examined exactly as you receive it, we can help to diagnose it better
> for you.
>
> Ev, W2EV
>

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 27 05:05:20 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA07586
for <lyris.aprsspec@tapr.org>; Fri, 27 Jul 2001 05:05:15 -0500 (CDT)
X-Sent: 27 Jul 2001 10:05:04 GMT
Subject: [aprsspec] Re: Altitude in comment field
Date: Fri, 27 Jul 2001 06:05:03 -0400
x-sender: sdimse@mail.telocity.com
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-26454-2001.07.27-05.26.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

On 7/27/01 5:56 AM Antonio Sergio Sena (asena@bigfoot.com) wrote:

>This is what i am TXing,
>
>@3853.73N/00902.07W>123/050/A=001234
>
>Beware of!! WinAprs works fine, but UIView does not.
>I have already sent an email to Roger Barker, UIView, so he can know what
>i found.
>
This is not correct. Reports starting with the @ sign are supposed to
include a timestamp. Change the @ to '=' if you are able to accept APRS
messages, or to '!' if you cannot accept messages, and you should get the
results you are hoping for.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jul 27 14:57:19 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA15008
for <lyris.aprsspec@tappr.org>; Fri, 27 Jul 2001 14:57:17 -0500 (CDT)
From: "Antonio Sergio Sena" <asena@bigfoot.com>
Organization: SHaRPeDGeS
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Date: Fri, 27 Jul 2001 20:56:57 +0100
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Subject: [aprsspec] Re: Altitude in comment field
Reply-to: asena@bigfoot.com
Message-ID: <LYR11589-26521-2001.07.27-15.18.51--
lyris.aprsspec#tappr.org@lists.tappr.org>
Priority: normal
In-reply-to: <200107271105229.SM00066@bigfoot.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B61D599.32697.679DDF8@localhost>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> >@3853.73N/00902.07W>123/050/A=001234
> >
> >Beware of!! WinAprs works fine, but UIView does not.
> >I have already sent an email to Roger Barker, UIView, so he can know what
> >i found.
> >
> This is not correct. Reports starting with the @ sign are supposed to
> include a timestamp. Change the @ to '=' if you are able to accept APRS
> messages, or to '!' if you cannot accept messages, and you should get the
> results you are hoping for.
>
> Steve K4HG
>

Unfortunately not.
I added the time stamp to the frame:

@231011z3853.73N/00902.07W>123/050/A=001234

And it still does not work in UIView.

Sena CT2GPW

Antonio Sergio Sena CT2GPW
asena@bigfoot.com

BEng Electrical & Electronic Engineering
Heriot-Watt University - Edinburgh

Homepage: www.qsl.net/ct2gpw

Do NOT send unsolicited commercial email to this email address.
This message neither grants consent to receive unsolicited
commercial email nor is intended to solicit commercial email.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 3 09:04:58 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA12700
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 09:04:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 10:04:32 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: Steve Dimse K4HG <k4hg@tappr.org>, Keith Sproul <ksproul@vger.rutgers.edu>,
Mark Sproul <msproul@jove.rutgers.edu>,
Brent Hildebrand <bhildebrand@earthlink.net>,
Roger Barker <roger@peaksys.co.uk>,
Robert Bruninga <bruninga@arctic.usna.edu>
Subject: [aprsspec] SATGATE Specification (Draft)
Message-ID: <LYR11589-27652-2001.08.03-09.26.44--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10108030935170.23198-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

With ISS and UO22 in orbit and digipeating APRS packets and the imminent launch of PCsat and SAPPHIRE, we need a consistent way to build SATGATES for injecting APRS packets into the APRS Internet system. This is my suggested DRAFT SATGATE spec:

SPACECRAFT that DIGIPEAT AX.25 packets: (* after Sept 2001)
ISS via NOCALL, downlink 145.800 1200 baud
UO22 via UOSAT5, downlink 435.120 9600 baud +/- Doppler
OPAL via KF6RFX, downlink 437.100 9600 baud +/- Doppler
*PCsat via PCSAT, downlink 145.825 and 144.39 1200 and 9600 baud
*SAPPHIRE v TBD, downlink 437.100 1200 baud +/- Doppler

Of these, ISS and PCsat will be the most popular by far, since they are EASY to do with an OMNI whip antenna and NO Doppler tuning and 1200 baud.

Most packets will probably be Mic-E (Kenwood) packets due to the mission to support mobile and handheld APRS communications. Packets heard on the downlink will be of the form:

FROMCALL>TOCALL,SATLITE*:packet....

Where the SATLITE* indicates the packet was digipeated from that Satellite. The purpose of this SATGATE SPEC is to define what happens to the packet once it hits the ground. We want to identify on WHAT downlink it was heard and WHICH SATGATE injected it into the APRS Internet system. To this end, I propose the following standard:

SATGATES will have a unique SSID associated with each of its receiver ports so that we can tell on which port a packet was heard. Thus, I suggest the following SSID defaults for the SATGATE calls:

- 1 PCSAT 1200 baud on 145.825
- 2 PCsat 9600 baud on 145.825
- 4 U022 9600 baud on 435.120
- 7 OPAL or SAPPHIRE on 437.100
- 11 PCsat 1200 baud on 144.39
- 12 PCsat 9600 baud on 144.39
- 15 ISS 1200 baud on 145.800

SATGATES will REBUILD the path of the original packet by INSERTING their CALLSIGN,TCPIP* AFTER the satellites digipeater callsign. Using the above example, the packet will be inserted into the INTERNET using the existing TAPR-2 ASCII standard as follows:

```
FROMCALL>TOCALL,SATLITE*,SATGATE-SS*,TCPIP*:packet.....
```

Where SS is the 0-15 SATGATE SSID indicating the receiver port of this SATGATE used to copy the above packet.

NOTE: I see no reason why this standard cannot also apply to all packets injected into the APRS Internet system as a means of identifying the IGATE and the port of origin into the network... but that is a separate issue..

de WB4APR@amsat.org, Bob

ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
PCsat Design	http://www.ew.usna.edu/~bruninga/pcsat.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 11:24:07 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA23010
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 11:24:02 -0500 (CDT)
X-Originating-IP: [208.51.39.70]
Reply-To: jeff@aerodata.net
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: k4hg@tapr.org, ksproul@vger.rutgers.edu, msproul@jove.rutgers.edu,
bhildebrand@earthlink.net, roger@peaksys.co.uk,
bruninga@arctic.usna.edu
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 03 Aug 2001 16:23:45 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-27671-2001.08.03-11.45.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 03 Aug 2001 16:23:45.0818 (UTC)
FILETIME=[AB254FA0:01C11C38]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <F202sdMjtLIX8I4JHpB0000d634@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As Bob was/is a member of the APRS-WG, does this mean the WG (if they still presently exist) is now accepting extensions to the protocol? I seem to recall a number of people submitted extensions, and were politely told it would have to wait until the spec was done. Some of these extensions were as well written as Bob's.

Not complaining, but to give the "appearance" of fairness, it might be prudent to also address those at this time. Of course, if the WG has disbanded, I guess it is just a matter of who puts the most pressure on the authors to adopt whatever they promote.

Just thought I'd point that out, if anyone cares.

-Jeff

>From: Bob Bruninga <bruninga@usna.edu>

>To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
>CC: Steve Dimse K4HG <k4hg@tappr.org>, Keith Sproul
><ksproul@vger.rutgers.edu>, Mark Sproul <msproul@jove.rutgers.edu>,
> Brent Hildebrand <bhildebrand@earthlink.net>, Roger Barker
><roger@peaksys.co.uk>, Robert Bruninga <bruninga@arctic.usna.edu>
>Subject: [aprsspec] SATGATE Specification (Draft)
>Date: Fri, 3 Aug 2001 10:04:32 -0400 (EDT)
>
>With ISS and UO22 in orbit and digipeating APRS packets and the imminent
>launch of PCsat and SAPPHIRE, we need a consistent way to build SATGATES
>for injecting APRS packets into the APRS Internet system. This is my
>suggested DRAFT SATGATE spec:

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 3 11:52:32 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA25553
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 11:52:32 -0500 (CDT)
Message-ID: <LYR11589-27675-2001.08.03-12.14.26--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 3 Aug 2001 12:53:03 -0400
MIME-Version: 1.0
Content-Type: text/plain
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B9001A94BEE@shpmail.ncshp.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I have to concur with Jeff on this... at a minimum it should have been
formally announced that the working group was re-opening itself to
considering extensions..

This is not meant to denigrate both good efforts and well intended actions on the part of the authors... I for one am thankful for the contribution from all those who have made their good efforts available.

I for one made a proposal a couple of years back that the UI Frame digipeat function should be modified to accommodate delay in retransmission.... An experiment I ran at the time (and posted on the APRS Sig) showed that for unconnected packets... many TNC's did not use any delay in retransmission... every digipeater immediately retransmitted UI frame packets... and thus only stations that were out of hearing from all but one... had any chance of hearing the digipeat.... connected mode packets were the only packets that acted properly in listening before transmissions....

Several folks noted how that was informative.. but the proposal (for one example) died.... I was looking forward for some open-source digi code (that could be installed on digipeating capable TNC's without an ancillary PC) that I could "hack" on to make this happen... and I still have hope that Marco will release UIDigi source (as he stated he would in his Beta testing days).... now I'm looking forward to HH III code being open sourced... and have acquired AVR development hardware and software to assist me in doing this.... I think it has the potential to be a DYNAMITE project... sort of a Kenwood that allows Hams to go in and work on the code themselves..... and maybe Phil Karns proposal to AMSAT will come to fruition and allow the same... THANKYOU PHIL for making the case for an Open Source solution....

I know it's been ranted and raved here in the past that there are doers and there are talkers... but I know for a fact some doers have gone ahead and done some stuff (ex: UIView, PropNet) and it was called into question and even slammed... maybe these too ought to have the option to propose their extensions as submissions...

Also there were those who wanted to establish telemetry standards (a single weather format rather than the tower of babel) and they were sidelined..

What's good for one should be good for all...

ALPHA
AH6LS

> -----Original Message-----

> From: Jeff King [SMTP:transit_man@hotmail.com]

> Subject: [aprsspec] Re: SATGATE Specification (Draft)

>

> As Bob was/is a member of the APRS-WG, does this mean the WG (if they
> still

> presently exist) is now accepting extensions to

> the protocol? I seem to recall a number of people submitted extensions,

> and were politely told it would have to wait until the spec was done. Some
> of these extensions were as well written as Bob's.

> Not complaining, but to give the "appearance" of fairness, it might be
> prudent to also address those at this time. Of course, if the WG has
> disbanded, I guess it is just a matter of who puts the most pressure on
> the authors to adopt whatever they promote.

>
> Just thought I'd point that out, if anyone cares.

>
> -Jeff
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 12:15:33 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA27475
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 12:15:29 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 13:14:41 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org, k4hg@tapr.org, ksproul@vger.rutgers.edu,
msproul@jove.rutgers.edu, bhildebrand@earthlink.net,
roger@peaksys.co.uk, bruninga@arctic.usna.edu
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <F202sdMjtLIX8I4JHpB0000d634@hotmail.com>
Message-ID: <LYR11589-27681-2001.08.03-12.37.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108031310020.16863-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff, as you recall, Steve Dimse never published an IGate spec, nor has
anyone ever put the existing mess down on paper. After the last round of

serious volunteers to put it together for the WG here on the SIG, nothing ever came of it.

Nothing has changed.

The WG is willing to address a draft spec if someone will put it together. In the meantime, we have a timely need to solve the problem of SATGATES. In that vein, I proposed the draft addressing only that issue.

Bob

On Fri, 3 Aug 2001, Jeff King wrote:

> As Bob was/is a member of the APRS-WG, does this mean the WG (if they still
> presently exist) is now accepting extensions to
> the protocol? I seem to recall a number of people submitted extensions,
> and were politely told it would have to wait until the spec was done. Some
> of these extensions were as well written as Bob's.
>
> Not complaining, but to give the "appearance" of fairness, it might be
> prudent to also address those at this time. Of course, if the WG has
> disbanded, I guess it is just a matter of who puts the most pressure on
> the authors to adopt whatever they promote.
>
> Just thought I'd point that out, if anyone cares.
>
> -Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 12:32:00 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA28898
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 12:31:58 -0500 (CDT)
X-Originating-IP: [208.51.39.70]
Reply-To: jeff@aerodata.net
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org, k4hg@tapr.org, ksproul@vger.rutgers.edu,
msproul@jove.rutgers.edu, bhildebrand@earthlink.net,
roger@peaksys.co.uk, bruninga@arctic.usna.edu
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 03 Aug 2001 17:31:42 +0000

Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-27686-2001.08.03-12.53.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 03 Aug 2001 17:31:43.0258 (UTC)
FILETIME=[297D47A0:01C11C42]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F2357FGVt0kncXlrme80000d7fe@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga <bruninga@usna.edu> wrote:

>Jeff, as you recall, Steve Dimse never published an IGate spec, nor has
>anyone ever put the existing mess down on paper.

I wasn't talking about a IGate spec, or Steve Dimse. I was talking about
the numerous people who wrote extensions specs who were politely told they
had to wait. Allan already brought up one, and I know there are others.

>Nothing has changed.
>The WG is willing to address a draft spec if someone will put it together.

Go in the archives then.... I'm just saying in fairness, the ones
before yours should be addressed first. Assuming, and that is a
big assumption, that the WG still exists, why do you feel your rights
to have a proposal considered should override those that have had
proposals sitting on the table for a year or more?

The problem with insisting the WG still is a viable body, as you seem
to keep doing, is occasionally someone will call you to task on it. I
am doing this. So, since you insist the WG is a viable body, then
do the right and fair thing, and open the spec to extensions and release
the holds that were put on other people's suggested extensions.

Why is this so hard to understand?

-Jeff

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 12:33:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA28944
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 12:33:44 -0500 (CDT)
Date: Fri, 03 Aug 2001 13:33:21 -0400
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Message-ID: <LYR11589-27687-2001.08.03-12.55.32--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20186817.996845601@WUSJA129861-8HP>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Just for the record -- Bob's email is the first that I, and I suspect other, members of the WG have heard about this proposal. It's not even clear to me that he intended it to be considered by the WG, since he addressed it to a very public mailing list, didn't separately cc at least two WG members (Mike Musick and me), and did cc two non-WG members (Steve Dimse and Roger Barker). I can assure you that the WG is not working on this, or frankly any other, proposal.

Whether the WG is still alive or not is a good question. Neither TAPR nor I own or control the group, and if the members would rather spend their time elsewhere, there's not much that can be done about that. People naturally want to spend their hobby time doing what's fun and relaxing, and I can assure you from personal experience that developing a protocol specification in the ham environment is neither.

As an aside, I'll also note that despite all the hoohah several months ago about an APRS internet spec, and all the people volunteering to work on it,

and the WG offering at least informal support,* not much more has been heard about that project since. Perhaps the WG isn't the only group realizing how they'd rather spend their time. (I'm not saying that to cast aspersions on the folks who volunteered, who I know all had the best of intentions; I'm merely pointing out what is a pretty predictable pattern in these matters.)

73,
John N8UR
jra@febo.com

* In looking at my mail files, I don't see that the WG took a formal vote to that effect or made a public statement, but I do see that Bill Diaz, who was instrumental in the server discussions, was cc'd on several emails where support from several WG members was informally offered.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 12:35:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA29028
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 12:35:23 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 13:35:02 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <LYR11586-27675-2001.08.03-12.14.26--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-27689-2001.08.03-12.57.16--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10108031316270.16863-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 3 Aug 2001, Sadowski, Allan wrote:

> I have to concur with Jeff on this... at a minimum it should have been
> formally announced that the working group was re-opening itself to
> considering extensions..
<snip>

Huh? Tabloid misinformation again?

There has been no such announcement. Only Jeff's off-the-wall confusing and inflamitory inference to mix up apples and oranges.

Here is what is going on. I posted a draft of a backwards compatible idea for SATGATES to inject data into the Internet to meet an emergent need. Let me clarify it for those who may be confused:

- 1) This has nothing to do with the APRS SPEC
- 2) This has nothing to do with the never written IGate SPEC
- 3) This is an emergent need to solve the SATGATE problem.
- 4) This is not an invitation for additions to the APRS SPEC 1.0
- 5) The invitation **still stands** for anyone to draft an IGate spec

If discussions about the SATGATE problem inspires someone to draft the long awaited IGATE protocol spec (to document what Steve originally implemented) for submission to the APRSWG then the WG is MORE THAN WILLING TO ACCEPT and review such a submission...

In the meantime, I need authors to add some backwards compatible SATGATE code to what we already have so that we can get some SATGATES on line... and know where the packets are coming from.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 12:43:28 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA29703
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 12:43:26 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 13:43:06 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <F2357FGVt0kncXlrme80000d7fe@hotmail.com>
Message-ID: <LYR11589-27691-2001.08.03-13.05.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10108031337430.16863-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 3 Aug 2001, Jeff King wrote:

> I wasn't talking about a IGate spec, or Steve Dimse. I was talking about
> the numerous people who wrote extensions specs who were politely told they
> had to wait. Allan already brought up one, and I know there are others.

Huh?

No one has said anything about opening up for the next version of the
APRS SPEC when we dont even have an INTERNET SPEC. We must have an
internet spec (which is what the majority of the APRS infrastructure is
all about) before we start messing up what is working now.

> ... So, since you insist the WG is a viable body, then
> do the right and fair thing, and open the spec to extensions and release
> the holds that were put on other people's suggested extensions.

No way are we going to start messing around with a version 2 of the APRS
SPEC when we dont even have a draft INTERNET SPEC.

> Why is this so hard to understand?

Good question! It seems perfectly clear to me.

de WB4APR, BOb

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:14:41 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA02922
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:14:36 -0500 (CDT)
Message-Id: <LYR11589-27697-2001.08.03-13.36.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 3 Aug 2001 14:14:19 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "Keith Sproul" <ksproul@vger.rutgers.edu>,
"Mark Sproul" <msproul@jove.rutgers.edu>,
"Brent Hildebrand" <bhildebrand@earthlink.net>,
"Roger Barker" <roger@peaksys.co.uk>,
"Robert Bruninga" <bruninga@arctic.usna.edu>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108031814.LAA08812@scaup.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/3/01 10:04 AM Bob Bruninga (bruninga@usna.edu) wrote:

```
>SPACECRAFT that DIGIPEAT AX.25 packets: (* after Sept 2001)
> ISS via NOCALL, downlink 145.800 1200 baud
> U022 via UOSAT5, downlink 435.120 9600 baud +/- Doppler
> OPAL via KF6RFX, downlink 437.100 9600 baud +/- Doppler
> *PCsat via PCSAT, downlink 145.825 and 144.39 1200 and 9600 baud
> *SAPPHIRE v TBD, downlink 437.100 1200 baud +/- Doppler
>....
> FROMCALL>TOCALL,SATLITE*,SATGATE-SS*,TCPIP*:packet.....
>
```

This violates the typical TNC protocol, where only the last-transmitting station is starred. Granted, there are other violations of this, e.g.

K4HG>WU2Z*,WIDE4-2:...

Where although WU2Z is starred, the packets has already been retransmitted by two WIDEn-n's, AFAIK there has never been an occasion before where there are two stars, this has a high risk of breaking a lot of existing applications.

Can you explain more about why this is such an emergent issue? Just as findu.com can easily identify packets retransmitted by ISS (NOCALL*), each of these other sats have digi IDs that are unique. About the only thing I can see different is this could differentiate the 9600 port from the 1200 port on PCSAT, is this such an important issue?

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:19:21 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA03126
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:19:18 -0500 (CDT)
Message-ID: <LYR11589-27698-2001.08.03-13.41.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 14:20:34 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27687-2001.08.03-12.55.32--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6AEB72.8A4F43A1@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

John Ackermann N8UR wrote:

> People
> naturally want to spend their hobby time doing what's fun and relaxing, and
> I can assure you from personal experience that developing a protocol
> specification in the ham environment is neither.

That is why it is important to allow new blood into the group. I understand
12 people volunteered, maybe it is time to fill some of the open/inactive slots.

> As an aside, I'll also note that despite all the hoohah several months ago
> about an APRS internet spec, and all the people volunteering to work on it,
> and the WG offering at least informal support,* not much more has been
> heard
> about that project since. Perhaps the WG isn't the only group realizing
> how they'd rather spend their time. (I'm not saying that to cast
> aspersions on the folks who volunteered, who I know all had the best of
> intentions; I'm merely pointing out what is a pretty predictable pattern in
> these matters.)

Whatever, I posted a rough outline and no-one commented on it, including the
principles. It is one thing volunteering, another doing something, and yet another
even getting recognition for what you have done. Think about it.

It is either time to get the WG back into gear, or close up shop and declare
victory. This limbo you and the WG insist on keeping in place is not productive.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:21:16 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA03218
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:21:09 -0500 (CDT)
Message-ID: <LYR11589-27699-2001.08.03-13.43.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 14:22:28 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27691-2001.08.03-13.05.18--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6AEBE4.103CC2E1@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob/John:

Bob Bruninga wrote:

> No way are we going to start messing around with a version 2 of the APRS
> SPEC when we dont even have a draft INTERNET SPEC.

I posted a rough outline of a internet spec, and had the FTP manager of TAPR even open a group about this. ME, not someone else. Not much, mind you, but people would rather bitch and moan on this list then do anything. And when someone does do something, it often is ignored or "deffered".

Not a single person commented on my outline, yeah or nay, WG or otherwise. You can only try so hard Bob.

I'm really tired of hearing this broken record from you and TAPR how no-one volunteers or does anything. It is complete BS.

> > Why is this so hard to understand?
>
> Good question! It seems perfectly clear to me.

As it is to me.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:31:53 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA04109
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:31:45 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 14:31:36 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
Keith Sproul <ksproul@vger.rutgers.edu>,
Mark Sproul <msproul@jove.rutgers.edu>,
Brent Hildebrand <bhildebrand@earthlink.net>,
Roger Barker <roger@peaksys.co.uk>,
Robert Bruninga <bruninga@arctic.usna.edu>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <200108031814.LAA08812@scaup.mail.pas.earthlink.net>
Message-ID: <LYR11589-27700-2001.08.03-13.53.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108031420010.16863-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 3 Aug 2001, Steve Dimse wrote:

```
> > FROMCALL>TOCALL,SATLITE*,SATGATE-SS*,TCPIP*:packet.....  
> >  
> This violates the typical TNC protocol, where only the last-transmitting  
> station is starred....  
> Can you explain more about why this is such an emergent issue?
```

OOPS! I see now that I confused what it looks like AFTER going back to RF on the existing system with what it looks like GOING IN. Sorry...

The main reason that I want to do something different is so that we can preserve the identification of the SATGATE that injected it; which the current IGATE process does not do.

So, drop the TCPIP* from my suggestion. THus, I think all I am proposing is that SATGATES simply insert their CALL* at the end of the path before inserting into the internet.

Your point is well taken whether any prior *'s should be eliminated.

BUT, I have seen existing TNC's that put a * by all digi fields that have the has-been-used bit set. SO having multiple *'s should not be a precedence. If there is code that is confused by this, then that code will not work with existing TNC's some of which do insert multiple *'s... So I hope that it is not a problem.

back to ya....

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:33:59 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA04299
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:33:51 -0500 (CDT)
Message-Id: <LYR11589-27701-2001.08.03-13.55.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 3 Aug 2001 14:33:19 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108031833.LAA14456@harrier.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/3/01 2:22 PM Jeff King (jeff@aerodata.net) wrote:

>I posted a rough outline of a internet spec, and had the FTP manager of TAPR
>even open a group about this. ME, not someone else. Not much, mind you, but
>people would rather bitch and moan on this list then do anything. And when
>someone does do something, it often is ignored or "deffered".

>

>Not a single person commented on my outline, yeah or nay, WG or otherwise.

>You

>can only try so hard Bob.

>

I never commented on what you submitted, because it was essentially a cut
and paste of what others had produced before. If the APRS Internet System
spec were going to take 1000 hours, you have done 10. 1% of a job is
nothing I'd take particular pride over!

>I'm really tired of hearing this broken record from you and TAPR how no-one
>volunteers or does anything. It is complete BS.

>

So you think you do 1% of the job and others should do 99%? That speaks
volumes about you, Jeff.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:43:39 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05062

for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:43:32 -0500 (CDT)

Message-Id: <LYR11589-27703-2001.08.03-14.05.30--

lyris.aprsspec#tapr.org@lists.tapr.org>

Subject: [aprsspec] Re: SATGATE Specification (Draft)

Date: Fri, 3 Aug 2001 14:43:15 -0400

x-sender: sdimse@earthlink.net

From: Steve Dimse <k4hg@tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>,

"Keith Sproul" <ksproul@vger.rutgers.edu>,

"Mark Sproul" <msproul@jove.rutgers.edu>,

"Brent Hildebrand" <bhildebrand@earthlink.net>,

"Roger Barker" <roger@peaksys.co.uk>,

"Robert Bruninga" <bruninga@arctic.usna.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108031843.LAA05658@swan.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/3/01 2:31 PM Bob Bruninga (bruninga@usna.edu) wrote:

>OOPS! I see now that I confused what it looks like AFTER going back to RF
>on the existing system with what it looks like GOING IN. Sorry...

>

>The main reason that I want to do something different is so that we can
>preserve the identification of the SATGATE that injected it; which the
>current IGATE process does not do.

>

I've said for years not including each IP station ID in the path was my
greatest error in designing the APRS IS, inserting this before the TCPIP*
would cause no problems as far as I can see.

>So, drop the TCPIP* from my suggestion. Thus, I think all I am proposing
>is that SATGATES simply insert their CALL* at the end of the path before
>inserting into the internet.

>

That still leaves two *'s, right? again, I'm not sure how existing
software will respond to this.

The TCPIP* is used by several things on the APRS IS, I think removing it
would cause problems, certainly on an unverified connection it would
cause the data to be dropped.

>BUT, I have seen existing TNC's that put a * by all digi fields that have
>the has-been-used bit set. SO having multiple *'s should not be a
>precedence. If there is code that is confused by this, then that code
>will not work with existing TNC's some of which do insert multiple *'s...
>So I hope that it is not a problem.

>

Which do this? I have never seen it. I'm very unsure my code would not
break if faced with this, I've never tested it...

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 3 13:44:50 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05134
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 13:44:48 -0500 (CDT)
Message-ID: <LYR11589-27704-2001.08.03-14.06.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 03 Aug 2001 14:46:18 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <200108031833.LAA14456@harrier.mail.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6AF17A.944B7F81@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Dimse wrote:

> >
> >Not a single person commented on my outline, yeah or nay, WG or otherwise.
> >You
> >can only try so hard Bob.
> >
> I never commented on what you submitted, because it was essentially a cut
> and paste of what others had produced before. If the APRS Internet System
> spec were going to take 1000 hours, you have done 10. 1% of a job is
> nothing I'd take particular pride over!

Thanks for your kind words of encouragement. However, unlike you, I do not take protocol development as a "king of the hill" kind of endeavor. I approach it as a open source effort.... where even a "1% of a job" means something. Being that NO-ONE, including yourself, was doing anything, I thought my "1% of a job" might focus people. Sorry it didn't rise to your standards.

> >I'm really tired of hearing this broken record from you and TAPR how no-one
> >volunteers or does anything. It is complete BS.
> >
> So you think you do 1% of the job and others should do 99%?

1% of something is better then 100% of nothing, which is what we have now. In any case, I only offered it as outline, which in technical writing is a good place to start.

>That speaks volumes about you, Jeff.

A discussion with you wouldn't go anywhere without you getting personal, would it?

Do you care to speak volumes about me Steve on this group? Have at it Steve, I'd love to hear what you think about me.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:50:12 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05777
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 13:50:05 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 14:49:57 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <3B6AEBE4.103CC2E1@aerodata.net>
Message-ID: <LYR11589-27705-2001.08.03-14.12.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108031432420.16863-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 3 Aug 2001, Jeff King wrote:

> I posted a rough outline of a internet spec, and had the FTP manager of TAPR
> even open a group about this. ME, not someone else. Not much, mind you, but
> people would rather bitch and moan on this list then do anything. And when
> someone does do something, it often is ignored or "deffered".

Case-in-point. Yep, that is the problem. You tried to get someone to help you flesh it out. Just like we have requested over and over. But still no one has found time to do the work of putting a draft together. I dont blame anyone, everyone is busy. But I wish you would stop blaming the WG when you also have experienced the same problem. Someone has got to do the work and not just whine about it...

> Not a single person commented on my outline, yeah or nay, WG or otherwise.
> You can only try so hard Bob.

That is what we have been saying all along. You claimed to have all these volunteers all lined up to put together an IGate SPEC... yet even your own attempt by drafting an outline also went no where...

> I'm really tired of hearing this broken record from you and TAPR how no-one
> volunteers or does anything.

We don't complain. You are the only one that complains. We simply state facts. That is... no one has drafted an IGate SPEC. If somone will take the time to draft an IGATE SPEC to document what currently exists, then the WG is more than happy to review it for formal adoption.

We do not blame volunteers for not volunteering. We simply recognize that people that can really get things done are busy. And those that can't really contribute anything useful are sometimes pretty good at complaining about everyone else...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 13:51:50 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05878
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 13:51:49 -0500 (CDT)
Message-Id: <LYR11589-27706-2001.08.03-14.13.43--
lyris.aprsspec#tappr.org@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 3 Aug 2001 14:50:57 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tappr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200108031850.LAA27152@scaup.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On 8/3/01 2:46 PM Jeff King (jeff@aerodata.net) wrote:

>> >I'm really tired of hearing this broken record from you and TAPR how no-one
>> >volunteers or does anything. It is complete BS.
>> >
>> So you think you do 1% of the job and others should do 99%?
>
>1% of something is better then 100% of nothing, which is what we have now. In
>any case, I only offered it as outline, which in technical writing is a good
>place to start.
>

But you see, this is exactly the problem. There needs to be the 99% guy.
Ian was that guy for the APRS spec, and so far there is no one for that
job with the APRS IS spec. So you do 1% of the job (a number you admit
is realistic) and then you start flaming others for not doing the 99%!
I'm not going to be the 99% guy, obviously neither are you. So, Bob and
TAPR tell the truth, that there is no other 99% guy in the wings, and you
make their fault. That is extremely unfair!

So yes,

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 14:04:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA06927
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 14:04:41 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 15:04:31 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
Keith Sproul <ksproul@vger.rutgers.edu>,
Mark Sproul <mssproul@jove.rutgers.edu>,
Brent Hildebrand <bhildebrand@earthlink.net>,
Roger Barker <roger@peaksys.co.uk>,
Robert Bruninga <bruninga@arctic.usna.edu>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <200108031843.LAA05658@swan.mail.pas.earthlink.net>
Message-ID: <LYR11589-27708-2001.08.03-14.26.40--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.05L.10108031459280.16863-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 3 Aug 2001, Steve Dimse wrote:

> >So, drop the TCPIP* from my suggestion. THus, I think all I am proposing
> >is that SATGATES simply insert their CALL* at the end of the path before
> >inserting into the internet.

> The TCPIP* is used by several things on the APRS IS, I think removing it
> would cause problems, certainly on an unverified connection it would
> cause the data to be dropped.

Yes, but you were correct that it should not be on the packet going INTO
the internet. SO I was only talking about removing it from my
erroneous initial suggestion. Not from things as they are. Whatever an
IGate does to the packet before sending it back to RF (including putting
the TCPIP* on it is a separate issue...)?

Concerning having multiple *'s in a TNC header:

> Which do this? I have never seen it. I'm very unsure my code would not
> break if faced with this, I've never tested it...

It shocked me when I saw it, but the DSP-12's do it...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 14:18:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA07844
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 14:18:39 -0500 (CDT)
X-Originating-IP: [208.51.39.70]
Reply-To: jeff@aerodata.net
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 03 Aug 2001 19:18:13 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-27713-2001.08.03-14.40.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 03 Aug 2001 19:18:14.0048 (UTC)
FILETIME=[0AB27200:01C11C51]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <F97CRGryWtIIZS2TRqf0000d20e@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

First of all, you are hearing what you want to hear, and
not what is being said. I don't expect that to change,
but I'll try anyways

Steve Dimse <k4hg@tapr.org> wrote:

>On 8/3/01 2:46 PM Jeff King (jeff@aerodata.net) wrote:

>
> >> >I'm really tired of hearing this broken record from you and TAPR how
>no-one
> >> >volunteers or does anything. It is complete BS.
> >> >
> >> So you think you do 1% of the job and others should do 99%?
> >
> >1% of something is better than 100% of nothing, which is what we have
>now. In
> >any case, I only offered it as outline, which in technical writing is a
>good
> >place to start.
> >
>But you see, this is exactly the problem. There needs to be the 99% guy.

WHY DOES THERE NEED TO BE A 99% guy? Tell me, I'd like to know. And
HOW DO YOU KNOW, I WOULDN'T HAVE BEEN THAT 99% GUY? Are you so arrogant
that you actually believe this stuff?

Fact of that matter is, I was looking for some feedback, of which I got
none. I even privately e-mailed you, no response. This is no way for TAPR
to treat volunteers, be they "99% guys" or "1% guys". Every little bit
helps.

>Ian was that guy for the APRS spec, and so far there is no one for that
>job with the APRS IS spec. So you do 1% of the job (a number you admit
>is realistic) and then you start flaming others for not doing the 99%!

Another "I'm Steve and if I say it, it must be true". Who am I flaming
prior to this message? I simply stated, if the WG still exists, then
amendments to the spec should go through it, and prior proposals should
be considered on a first come first server basis.

Please comment on the above and tell me how this is unreasonable.

>I'm not going to be the 99% guy, obviously neither are you.

"And obviously neither are you"? You really are arrogant, aren't you?
I wrote a rough outline.... who is to say I wouldn't have continued on
it if I got some feedback, any feedback. And I certainly still could,
I'd just like a little feedback. I'm sure Ian didn't work in a vacuum
and whoever writes the APRSSERVE spec shouldn't be expected to either.

Read what I post, not what you think I am thinking. It would go a long

way into stopping these Elvis and the Aliens type responses.

Thanks

Jeff

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 14:46:24 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA10312
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 14:46:21 -0500 (CDT)
X-Originating-IP: [208.51.39.70]
Reply-To: jeff@aerodata.net
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 03 Aug 2001 19:46:01 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-27717-2001.08.03-15.08.18--
lyris.aprsspec@lists.tapr.org>
X-OriginalArrivalTime: 03 Aug 2001 19:46:11.0280 (UTC)
FILETIME=[F267BD00:01C11C54]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F239LVbNDN4CxpAOAKK0000d9c5@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Again, read what I say, not what you think I am thinking.

Bob Bruninga <bruninga@usna.edu> wrote:

>On Fri, 3 Aug 2001, Jeff King wrote:

>
> > I posted a rough outline of a internet spec, and had the FTP manager of
>TAPR
> > even open a group about this. ME, not someone else

>Case-in-point. Yep, that is the problem. You tried to get someone to help
>you flesh it out.

Exactly. See we can agree on things occasionally.

>Just like we have requested over and over. But still
>no one has found time to do the work of putting a draft together.

Here is my issue, and lets use Steve's numbers of 1000 hours for a
APRS-SERVE draft.

I don't trust the WG even exists or cares anymore. Maybe it is just me,
but you have to admit, no official action has occurred over a year. So
you expect a person, on faith, to invest 1000 hours of there time when
the WG may just be a black hole? If one invests 10 hours of there time,
and cannot get a single comment, encourage or discouraging, that seems
like a good litmus test that no-one really cares or that the WG is just
a black hole.

>I don't
>blame anyone, everyone is busy. But I wish you would stop blaming the WG
>when you also have experienced the same problem. Someone has got to do
>the work and not just whine about it...

I'm not blaming the WG or blaming you.... clearly you put alot of work
into your SATGATE draft and you should be commended for it. And at least
you are getting some comments on here, unlike my experience. (and in
fairness, I just remembered, Bill Diaz did critique it off SIG with me)

But, again, listen to what I was saying. I'm just suggesting that there
is supposed to be a process in place for amendments to the APRS spec.
You claim to be a present member of the WG, so you of anyone should
appreciate what I am saying. I am simply saying that other extensions to
the APRS spec had been proposed in the past, should these not also be
consider at the same time, or ahead of yours?

Unlike others, I don't buy the argument "Well Bob didn't say he was
posting as a member of the WG". That is wishy washing weasel word thinking.
For a
spec to be effective, it has to be enforced. It is a black and white
issue. There is either a process, or there is not a process.

That is *all* I am saying.

>
> > Not a single person commented on my outline, yeah or nay, WG or
> otherwise.
> > You can only try so hard Bob.
>
> That is what we have been saying all along. You claimed to have all these
> volunteers all lined up to put together an IGate SPEC...

I made NO SUCH claim. You are thinking of Bill Diaz. I never volunteered to be on the APRS-WG, and I only offered to help Bill if he didn't have enough people (and I believe he did have enough). That much being said, I saw the APRS-Igate spec discussion going no where, so I took some of *my* time, and wrote up a rough draft outline hoping to get a few comments from some of the group. I got nothing.

> > I'm really tired of hearing this broken record from you and TAPR how
> no-one
> > volunteers or does anything.
>
> We don't complain. You are the only one that complains. We simply state
> facts. That is... no one has drafted an IGate SPEC.

So, Ian worked in a vacuum with no prior input from the WG and only presented the fully polished document. Come on, that is not how a protocol process works. Sorry, can't fool me because I have been on some industry groups doing this stuff.

> If someone will take
> the time to draft an IGATE SPEC to document what currently exists, then
> the WG is more than happy to review it

Sure, let me know if this is on the right track:

<http://www.tapr.org/tapr/list-archive/aprsspec/0102/msg00024.html>

and I'll keep adding to it. Sorry, I am not a fan of "build it and they will come" mindset and feel this should be a cooperative effort.

> We do not blame volunteers for not volunteering. We simply recognize that
> people that can really get things done are busy. And those that can't

>really contribute anything useful are sometimes pretty good at complaining
>about everyone else...

Complaining? Again, for the point challenged, let me state again what
I was saying here:

If the WG still exists, there is a process for submitting additions
to the protocol. Recognizing this, there are other additions that
were submitted by other people that were tabled. If indeed this
APRS-WG still exists, then these amendments should now be considered.

If you consider the above "complaining", power to you brother, but what
I am saying really seems self evident to me. It either is, or it isn't.
Can't be both at the same time as some would like us to believe. A
protocol spec, to be effective, must be black and white, including the
political process behind it. To do otherwise is to do a disservice to
the ones you wish to enforce this on.

Then again, maybe I am involved in to many industry groups that won't
put up with this kind of stuff..... oh well.

-Jeff

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 15:05:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA12657
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 15:05:44 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-27720-2001.08.03-15.27.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 15:29:11 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: AATLT/TAMU
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Come on, folks...
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6B0997.735B054E@cs.tamu.edu>
Precedence: bulk

Do you guys have any idea how hard it is to fit any interest into a discussion of this sort, which really has some interesting AND IMPORTANT ramifications, when so many different individuals are sniping, whining or name calling?

Can we, for a little while, ease off and stick to technical aspects of the discussion? No personal vendetta, no dismissal out of hand because of who said it, no off-color remarks and no name calling?

Thanks.

--

Gerry Creager
AATLT/Network Engineering
Texas A&M University
979.458.4020 (Phone) 979.847.8578 (FAX)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 15:11:17 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA12823
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 15:11:15 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 16:10:42 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] SATGATE Specification (rev 1)
In-Reply-To: <LYR11586-27652-2001.08.03-09.26.44--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-27725-2001.08.03-15.32.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108031533310.27202-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is the SATGATE proposal completely REDONE to correct my confusing use of the TCPIP* alias. Also, I have re-written it to distinguish between "requirements" and "preferences"...

APRS SATGATE Specification (draft)

PURPOSE:

With ISS, OPAL and UO22 in orbit and digipeating APRS packets and the imminent launch of PCsat and SAPPHIRE, we need a consistent and backwards compatible way to build SATGATES for injecting APRS packets into the APRS Internet system. The existing IGate process has no traceability to the source of the packet. This proposal attempts to identify the SATGATE using the existing DIGIPEATER fields for backwards compatibility.

BACKGROUND: There are now and will be more SPACECRAFT that DIGIPEAT AX.25 packets: (Those marked with * launch in Sept 2001)

- ISS via NOCALL, downlink 145.800 1200 baud
- UO22 via UOSAT5, downlink 435.120 9600 baud +/- Doppler
- OPAL via KF6RFX, downlink 437.100 9600 baud +/- Doppler
- *PCsat via PCSAT, downlink 145.825 and 144.39 1200 and 9600 baud
- *SAPPHIRE v TBD, downlink 437.100 1200 baud +/- Doppler
- *STARSHINE periodic telemetry donwlink on 145.825 9600 baud

Of these, ISS and PCsat will be the most popular by far, since they are EASY to do with an OMNI whip antenna and NO Doppler tuning and 1200 baud.

ASSUMPTIONS: UI Packets heard on the downlinks will be from either the satellite itself or a digipeated packet from a user of the form:

SATCALL>TOCALL:telemetry.or.other.data (From the satellite)
FROMCALL>TOCALL,SATLITE*:packet.data.... (from users)

Where the SATLITE* indicates the packet was digipeated from that Satellite. The purpose of this SATGATE SPEC is to define what happens to the packet once it hits the ground. We want to identify on WHAT downlink it was heard and WHICH SATGATE injected it into the APRS Internet system. To this end, I propose the following requirement:

REQUIREMENT: Satgates will take the ASCII TAPR-2 header of such packet and rebuild it to ADD the SATGATE's CALLSIGN* after the last existing DIGI* before injecting the ASCII TAPR-2 header and packet into the Internet. Thus, it simply looks like the SATGATE "digipeated" the packet. In other words, it then looks like this:

```
SATCALL>TOCALL,SATGATE*:telemetry.or.other.data
FROMCALL>TOCALL,SATELITE*,SATGATE*:packet.data....
```

COMMENT: Steve has pointed out that some existing software may croak on seeing two or more **'s, but I note that the DSP-12 TNC has always used multiple **'s and so this is not a new precedent. Existing code has to already search for the last * in the path to be compatible with this TNC.

OPERATIONAL PREFERENCES: When SATGATE operators set up their SATGATE, I think it would be nice if SATGATES chose a consistent SSID associated with each of its receiver ports so that we can tell on which port a packet was heard. Thus, I suggest SYSOPS use the following SSID defaults for their SATGATE callisigns:

YOURCALL-1	1200 baud	on 145.825	(PCsat-1 operates there)
YOURCALL-2	9600 baud	on 145.825	(PCsat-2 operates there)
YOURCALL-5	9600 baud	on 435.120	(UOSAT5 operates there)
YOURCALL-7	1200 baud	on 437.100	(SAPPHIRE operates there)
YOURCALL-12	9600 baud	on 144.39	(PCsat can operate there)*
YOURCALL-15	1200 baud	on 145.800	(ISS operates there)

Note that PCsat also has the capability to downlink BULLETINS on 144.39 over North America, but these will be used infrequently and will get into the existing APRS IGate system independent of this proposal. They will be treated as any other IGated raw packet. For planning purposes, such packets will be either FROM or VIA the calls of PCSAT-11 or PCSAT-12.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 15:19:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA13044
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 15:19:36 -0500 (CDT)
Message-Id: <LYR11589-27727-2001.08.03-15.41.24--

lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Fri, 3 Aug 2001 16:19:12 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
cc: <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108032019.NAA16084@robin.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On 8/3/01 3:18 PM Jeff King (transit_man@hotmail.com) wrote:

>>But you see, this is exactly the problem. There needs to be the 99% guy.
>
>WHY DOES THERE NEED TO BE A 99% guy? Tell me, I'd like to know. And
>HOW DO YOU KNOW, I WOULDN'T HAVE BEEN THAT 99% GUY? Are you so arrogant
>that you actually believe this stuff?
>

Yes, I actually believe it, though I don't think it is arrogant to do so.
There has to be a 99% guy. Maybe the number isn't always 99%, but it is
almost always greater than 50%. And that 99%, or 51%, or whatever need
not be measurable in lines of code or documentation, but if not, it is
there in terms of vision, drive and management. 99%, or even 51%, of
Linux isn't written by Linus, but he provides the vision and management
that makes it happen.

The size of the project determines whether what is needed is a guy to do
the grunt work or the management. In a small project, like findu.com,
most efficient is a code guy. In a huge project, like Apache or Linux,
you need a management guy (or in either case a very small group that are
able to function as an individual).

How do I know you aren't the 99% guy? That's so obvious I can't believe
you would ask. You are so busy trying to belittle the efforts of others
and cause general discontent, that you could not possibly do 99% of even
the most trivial APRS project. As proof, I offer the following list of
your contributions to APRS over the last 4 years (feel free to correct
all those things I missed):

-----Begin List-----

1% of the APRS IS spec
-----End List-----

This list isn't almost empty because you are incapable of contributing. On the contrary, it is obvious you are a very intelligent and skilled engineer. It is empty because for whatever reason you choose not to contribute. What is that reason? Wouldn't it be more fun to create something useful than to knock other people all the time?

>Fact of that matter is, I was looking for some feedback, of which I got
>none. I even privately e-mailed you, no response. This is no way for TAPR
>to treat volunteers, be they "99% guys" or "1% guys". Every little bit
>helps.

>

As I expalined to you, I didn't comment because there was no work expressed there. There was nothing new, no original thought or effort. I'd contrast that to the work of Ian, where he synthesized large amounts of material into wonderfully written, understandable, attractively formatted prose. He dug into the spec, wrote programs to understand how the parsing would work, found errors, and generally ran the whole show. To imtimidate that you are to the APRS IS spec what Ian was the the APRS spec is lunacy! I can't believe you would be so vain as to even hint at that!!!!

>

>>Ian was that guy for the APRS spec, and so far there is no one for that
>>job with the APRS IS spec. So you do 1% of the job (a number you admit
>>is realistic) and then you start flaming others for not doing the 99%!

>

>Another "I'm Steve and if I say it, it must be true". Who am I flaming
>prior to this message?

>

No,

On 8/3/01 2:22 PM Jeff King (jeff@aerodata.net) wrote:

>

>I'm really tired of hearing this broken record from you and TAPR how no-one
>volunteers or does anything. It is complete BS.

You are flaming TAPR and Bob for not doing the 99%, It is not complete BS. Many people are glad to contribute ideas, offers of help, and 1% of the work. However, when it come down to the nitty-gritty work, no one does it. Ian was a wonderful exception to that, as are a number of other people on this list. However neither you, myself, the APRS WG, or anyone else is able to assign tasks to these very few doers. They all have their own lives and priorities, and every right to do those things, and only those things, that interest them.

There many more people on this list that could be doers, but for whatever reason chose not to. That is the single thing about APRS I'd most like to change. We have an enormous number of talented and competent people that could contribute, but for whatever reasons never do. A few not only don't contribute, but seem to take pride in dragging down the work of others, this is the greatest drag of all.

I believe Bob when he says the APRS WG would consider the APRS IS spec were someone to do it. Certainly if someone were to do it, I'd do everything in my power as a TAPR board member and leader in the APRS community to make sure it got approval, or had whatever modifications were necessary to assure its approval.

>I simply stated, if the WG still exists, then
>amendments to the spec should go through it, and prior proposals should
>be considered on a first come first server basis.

This was not a proposal to the APRS WG. That you and I saw it is proof of that. This was something Bob proposed publicly because he felt it was a priority issue. To be honest, I don't see the need, but instead of debating the proposal on its merits or lack thereof, you chose to attempt to use it as a soapbox to show how no one else wants to follow up and do the 99% of the job you just barely started.

>
>"And obviously neither are you"? You really are arrogant, aren't you?
>I wrote a rough outline.... who is to say I wouldn't have continued on
>it if I got some feedback, any feedback. And I certainly still could,
>I'd just like a little feedback. I'm sure Ian didn't work in a vacuum
>and whoever writes the APRSSERVE spec shouldn't be expected to either.
>

Actually, Ian did work largely in a vacuum. That he did 99% of the work is really not much of an exaggeration. If he stopped because he wasn't getting feedback, the spec would be about three pages long, not the wonderful 100+ pages we have now. That's why I know you aren't the 99% guy for this project. If you were, you'd be writing now instead of complaining that no one gave you feedback!

>Read what I post, not what you think I am thinking. It would go a long
>way into stopping these Elvis and the Aliens type responses.

>
Elvis is dead, and there are no aliens. Get over it!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 15:52:15 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA14601
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 15:52:09 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 3 Aug 2001 16:50:30 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <LYR11586-27717-2001.08.03-15.08.18--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-27739-2001.08.03-16.13.30--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108031612080.27202-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 3 Aug 2001, Jeff King wrote:

> I don't trust the WG even exists or cares anymore. Maybe it is just me,

Yes, it is just you. And frankly, since 96% of all traffic on the APRSSPEC list is just your continued rehashing of your continuing complaints, probably most everyone else just ignores 100% of the postings. They have lives to live.

Thus, we cannot get anything done here when each technical posting results in a week of drivell and dozens of useless rehashing of your endless barnburning... Take this recent SATGATE proposal. I count ONE technical feed back and 21 Emails about your bitching. That is why nothing gets done here. No one wants to sort through all your BS to find the point at hand.

> but you have to admit, no official action has occured over a year.

Sorry, we may not have done what YOU wanted, but we accomplished

quite a lot. Just a quick scan of the log and we did several things:

- 1) Resolved the use of NOGATE, RFONLY and other OPT-OUT mechanisms
- 2) Resolved how Mic-E packets should be passed through the internet
- 3) Approved the /E=XXXX expiration extension to OBJECTS
- 4) Issued a revised DESTINATION TOCALL list
- 5) Began a listing of USER DEFINED FORMATS
- 6) Endorsed an APRSSPEC users attempt to draft an IGate SPEC
- 7) Resolved the need for fixed position "g" or "t" in WX reports.
- 8) Read through hundreds of rantings and ravings by Jeff

> you expect a person, on faith, to invest 1000 hours of there time when
> the WG may just be a black hole?

I agree, most of your rantings and ravings go in the black-hole. They are mostly of no technical merrit, just constant complaining about how you want everyone else to do the work.. Each of the members of the WG has invested not 1000 hours but more like 8,000 hours or more...

> >We don't complain. You are the only one that complains. We simply state
> >facts. That is... no one has drafted an IGate SPEC.
>

> So, Ian worked in a vacuum with no prior input from the WG and only
> presented the fully polished document. Come on, that is not how a
> protocol process works.

YOU ARE RIGHT. THAT IS NOT HOW IT WORKS. Ian was given my COMPLETE APRSdos PROTOCOL documents and from that he edited it into the SPEC format. EVERYTHING WAS THERE. He EDITED it and pointed out any conflicts or errors and the WG worked to resolve those into a final document. But 99% of the protocol WAS DOCUMENTED BEFORE the SPEC WORK even began.

Now, as we say over and over and over and over again to you JEFF, there is no draft IGate SPEC. And no matter how much you complain, there is no SPEC for the APRS WG to review nor approve until SOMEONE prepares a complete draft and submits it for review.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 16:28:45 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA19134
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 16:28:38 -0500 (CDT)
Message-ID: <LYR11589-27748-2001.08.03-16.50.32--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 3 Aug 2001 21:28:24 +0000 (GMT)
From: Bill Vodall <wa7nwp@yahoo.com>
Reply-To: wa7nwp@yahoo.com
Subject: [aprsspec] Re: SATGATE Specification (rev 1)
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
In-Reply-To: <LYR19173-27725-2001.08.03-15.32.56--wa7nwp#yahoo.com@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20010803212824.29615.qmail@web3606.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

A possible issue... If using APRStk or future equivalent with
a D7/D700 to monitor for packets - we'd need software a bit
smarter so it could switch the outgoing ALIAS and the local
SSID on the Igate at the same time the frequency was switched.

Not a big thing, just something that will make it more
interesting.

> Thus, I suggest SYSOPS use the following SSID defaults
> for their SATGATE callisigns:

>
> YOURCALL-1 1200 baud on 145.825 (PCsat-1 operates there)
> YOURCALL-2 9600 baud on 145.825 (PCsat-2 operates there)
> YOURCALL-5 9600 baud on 435.120 (UOSAT5 operates there)
> YOURCALL-7 1200 baud on 437.100 (SAPPHIRE operates there)
> YOURCALL-12 9600 baud on 144.39 (PCsat can operate there)*
> YOURCALL-15 1200 baud on 145.800 (ISS operates there)

And as for the multiple * on heard digi's, the Linux AX25 listen
function shows them that way. I don't think it has any bearing
hear as what's being discussed is how they get sent to the Igates
which is a different process.

Bill - WA7NWP

Do You Yahoo!?

Make international calls for as low as \$.04/minute with Yahoo! Messenger
<http://phonecard.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 20:10:20 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA01714
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 20:10:20 -0500 (CDT)
Message-ID: <LYR11589-27793-2001.08.03-20.32.10--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 21:11:46 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27727-2001.08.03-15.41.24--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6B4BD2.8373C1C0@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I notice you have yet to address what started this. That is, the
protocol process.

Steve Dimse wrote:

>

> On 8/3/01 3:18 PM Jeff King (transit_man@hotmail.com) wrote:

>

> >>But you see, this is exactly the problem. There needs to be the 99% guy.

> >
> >WHY DOES THERE NEED TO BE A 99% guy? Tell me, I'd like to know. And
> >HOW DO YOU KNOW, I WOULDN'T HAVE BEEN THAT 99% GUY? Are you so arrogant
> >that you actually believe this stuff?
> >
> Yes, I actually believe it, though I don't think it is arrogant to do so.
> There has to be a 99% guy. Maybe the number isn't always 99%, but it is
> almost always greater than 50%.

First of all, once again, you take things out of context. This "1% figure" you keep citing was the first step in the process in any contributory tech writing endeavor. This is no different then collaborative groups in industry do it. A draft outline that was sent directly to you for a reality check that you REFUSED to even comment on. The fact that the founder of APRSSERVE refused to comment on it, just like you continuing unfounded attacks on me, was discouraging. And in any case, 99% and 50% are not the same number.

As to arrogant, I was referring to your general attitude which has been formed over the years, and recently reinforced today in private e-mail when you made some discouraging remarks about another party here. Just your general demeanor... actually I think it is part of your education, I've noticed it among other ER doctors I have known over the years. You might want to leave that at the door.

> And that 99%, or 51%, or whatever need
> not be measurable in lines of code or documentation, but if not, it is
> there in terms of vision, drive and management. 99%, or even 51%, of
> Linux isn't written by Linus, but he provides the vision and management
> that makes it happen.

What vision in APRS are we referring to?

> The size of the project determines whether what is needed is a guy to do
> the grunt work or the management. In a small project, like findu.com,
> most efficient is a code guy. In a huge project, like Apache or Linux,
> you need a management guy (or in either case a very small group that are
> able to function as an individual).

Yet we are talking about a formal protocol process, a far cry from your closed source project FINDU. Protocol development, in particular now, needs to be an open process, one where the "1% guys" you are so fond of belittling can contribute.

> How do I know you aren't the 99% guy? That's so obvious I can't believe
> you would ask. You are so busy trying to belittle the efforts of others
> and cause general discontent, that you could not possibly do 99% of even
> the most trivial APRS project.

Lets see, how do I say you are full of it a nice way? Can't think of a way to do it. All I stated here was that there were prior proposals on the table for protocol additions that should be addressed also, if the process still exists or is open. Why do you have such a problem with the obvious and why do you equate stating the obvious to "belittling the efforts of others"? You make all these statements you can't back-up...

> As proof, I offer the following list of
> your contributions to APRS over the last 4 years (feel free to correct
> all those things I missed):
>
> -----Begin List-----
> 1% of the APRS IS spec
> -----End List-----

Well, besides being arrogant, you also are dishonest as well. Suprise suprise... now the question is should I even bother to counter your claims? Oh, why not, I'm sure you'll be able to find some fault with them as well, I trust you Steve to only see what you want to see and do your best to minimize and degrade the contributions of others.

<http://www.mich.com/~jeff/fluxgate.gif>
<http://www.mich.com/~jeff/DUC+CDPD.jpg>
<http://www.mich.com/~jeff/educopen.jpg>
<ftp://ftp.tapr.org/picsig/software/a-compass.zip>
<ftp://ftp.tapr.org/picsig/software/gpsewka.zip>
<http://www.mich.com/~jeff/vcu-pcb.png>

and of course, many many other things besides APRS.

> This list isn't almost empty because you are incapable of contributing.
> On the contrary, it is obvious you are a very intelligent and skilled
> engineer. It is empty because for whatever reason you choose not to
> contribute. What is that reason? Wouldn't it be more fun to create
> something useful than to knock other people all the time?

Again, you have come to a conclusion that the facts don't entirely support. Your seeing something, or misunderstanding something, that is just not there. I will admit to being less the tactful far to often, but the message is stays the same. Since you are again making a accusation, who am I knocking over? I think you are confusing the expectation of ethical behavior with knocking people down. Maybe a fine line, but it is a line. If one accepts the responsibility of administering a standards group, a group the can exert influence on both the individual and industry, one should expect ethical behavior. Allowing insiders proposals to be heard and accepted while outsiders protocol amendments remain tabled, seems unethical

to me.

Now, was I accusing someone of purposeful unethical behavior? No, not at all. I just was pointing out the appearance of unethical behavior. It is a fine line, and bottom line, someone has to care. From what I have seen, the appearance of ethics within certain groups is not a high priority.

>
> >Fact of that matter is, I was looking for some feedback, of which I got
> >none. I even privately e-mailed you, no response. This is no way for TAPR
> >to treat volunteers, be they "99% guys" or "1% guys". Every little bit
> >helps.
> >
> As I expalined to you, I didn't comment because there was no work
> expressed there. There was nothing new, no original thought or effort.

Another attaboy for Jeff, huh? Maybe TAPR should appoint you as the new volunteer recruiter?

And what was "not new" or "not original" about these points I raised?

from <http://www.tapr.org/tapr/list-archive/aprsspec/0102/msg00024.html>
**Extensions to messaging
 RF message gateway selection
 Least hop routing
 Least power routing

Who, besides me, in a public forum, have you ever heard discuss least power routing in the context of APRS? And for that matter, even routing? BTW, Bill Diaz suggested I remove the extensions as he felt just get the basics first. I agreed with him, yet there it is out in the open.

As I said, you see what you want to see.

> To intimidate that you are to the APRS IS spec what Ian was the the APRS
> spec is lunacy! I can't believe you would be so vain as to even hint at
> that!!!!

Are you on drugs or something? All I said is Ian didn't work in a vacuum. Pull yourself together Steve.

> On 8/3/01 2:22 PM Jeff King (jeff@aerodata.net) wrote:
> >
> >I'm really tired of hearing this broken record from you and TAPR how no-one

> >volunteers or does anything. It is complete BS.
> -----
>
> You are flaming TAPR and Bob for not doing the 99%, It is not complete
> BS.

Then cite what I am saying, otherwise it is yet another Stevism. AGAIN, for the challenged, I am saying it is improper to move ahead with additions to the spec unless the tabled additions are also addressed. Real simple but one has to have some understanding of ethics to grasp that. Possibly this is the common ground we lack.

> I believe Bob when he says the APRS WG would consider the APRS IS spec
> were someone to do it.

So, by your estimates, someone will invest 1000 hours in the spec, in a vacuum, with no feedback from the major players, and then the WG will consider it? Thanks, but I'll pass on that one. I need feedback that I am on the right track.

> >I simply stated, if the WG still exists, then
> >amendments to the spec should go through it, and prior proposals should
> >be considered on a first come first server basis.
>
> This was not a proposal to the APRS WG. That you and I saw it is proof of
> that.

That you and I saw it is proof? I don't understand that statement. The amendments I saw that were proposed to the working group, and then tabled, were also posted here. The thing you DON'T understand, that if you going to have a spec, you need to have a process FOR that spec. It is a black and white issue. It either is, or it isn't. It can't change depending on who is proposing something nor should it be excused. It is a fundamental issue.

> This was something Bob proposed publicly because he felt it was a
> priority issue. To be honest, I don't see the need, but instead of
> debating the proposal on its merits or lack thereof, you chose to attempt
> to use it as a soapbox to show how no one else wants to follow up and do
> the 99% of the job you just barely started.

Again, here we go with the Stevisms again. Your the one doing this 99% of nothing argument. Again, for the challenged, this is what I was saying:

I am saying it is improper to move ahead with additions to the spec unless the tabled additions are also addressed.

> >Read what I post, not what you think I am thinking. It would go a long
> >way into stopping these Elvis and the Aliens type responses.
> >
> Elvis is dead, and there are no aliens. Get over it!

OK, gladly, is there a medical diagnose for only seeing what you want to see? This discussion had nothing to do with Ian, APRS internet, 99% of nothing or power poles. It had everything to do with a process, and applying that process in a fair and equitable manner. All I have hear here are excuses and attempts to divert the issue.

And all I am guilty of is pointing out the obvious. I'm sorry it hurts, but no matter how much you attack and belittle my accomplishments, I'm not going to back down. Ethics and the appearance of ethics do matter in a volunteer organization.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 20:30:49 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA02465
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 20:30:47 -0500 (CDT)
Message-ID: <LYR11589-27795-2001.08.03-20.51.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 21:31:27 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27739-2001.08.03-16.13.30--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6B506F.489286DE@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
> On Fri, 3 Aug 2001, Jeff King wrote:
>
> > I don't trust the WG even exists or cares anymore. Maybe it is just me,
>
> Yes, it is just you.

Really? I've seen more then few say the same things here. Certainly the lack of any activity or effort to replace the missing members makes it seem that way.

> And frankly, since 96% of all traffic on the
> APRSSPEC list is just your continued rehashing of your continuing
> complaints, probably most everyone else just ignores 100% of the postings.
> They have lives to live.

96% of all traffic? Care to document that claim?

BTW, some people do take ethic's concerns (or complaints as you put it) seriously.

> Thus, we cannot get anything done here when each technical posting results
> in a week of drivell and dozens of useless rehashing of your endless
> barnburning... Take this recent SATGATE proposal. I count ONE technical
> feed back and 21 Emails about your bitching. That is why nothing gets
> done here. No one wants to sort through all your BS to find the point at
> hand.

You really don't understand ethics do you? You have two votes on the WG, more then any single member. People who were NOT members of the working group have made similar amendment proposals in the past as you are now. There proposals were tabled for a latter time.

All I am suggesting is if it is good for the goose, it is good for the gander. If you want your amendment considered, it is only fair and equitable that all the tabled amendments be considered.

Why is this so hard to understand for you?

> > but you have to admit, no official action has occurred over a year.
>
> Sorry, we may not have done what YOU wanted, but we accomplished
> quite a lot. Just a quick scan of the log and we did several things:
>
> 1) Resolved the use of NOGATE, RFONLY and other OPT-OUT mechanisms

What I wanted? Actually, I was one of the big proponents of the "NOGATE"
spec, so I guess I owe you some thanks. Where in the spec does it say this?

> 8) Read through hundreds of rantings and ravings by Jeff

Glad to be of service to you.

> > you expect a person, on faith, to invest 1000 hours of their time when
> > the WG may just be a black hole?
>
> I agree, most of your rantings and ravings go in the black-hole. They
> are mostly of no technical merit, just constant complaining about how you
> want everyone else to do the work.. Each of the members of the WG has
> invested not 1000 hours but more like 8,000 hours or more...

Buzz light year, to infinite and beyond! So, let's see 10 members times
8000 hours = 80,000 man hours. Are you sure you might not be over estimating?

> > >We don't complain. You are the only one that complains. We simply state
> > >facts. That is... no one has drafted an IGate SPEC.
> >
> > So, Ian worked in a vacuum with no prior input from the WG and only
> > presented the fully polished document. Come on, that is not how a
> > protocol process works.
>
> YOU ARE RIGHT. THAT IS NOT HOW IT WORKS. Ian was given my COMPLETE
> APRSdos PROTOCOL documents and from that he edited it into the SPEC
> format. EVERYTHING WAS THERE. He EDITED it and pointed out any conflicts
> or errors and the WG worked to resolve those into a final document.
> But 99% of the protocol WAS DOCUMENTED BEFORE the SPEC WORK even began.

GOOD, now tell that to Steve. That is exactly what I meant. Ian had some
kind of basis to work with, I start to assemble a basis to work with
(Steve's 1% argument) and I am ignored/attacked over it by a principle.

> Now, as we say over and over and over and over again to you JEFF, there is
> no draft IGate SPEC. And no matter how much you complain, there is no
> SPEC for the APRS WG to review nor approve until SOMEONE prepares a
> complete draft and submits it for review.

I don't disagree with this statement, I'm just suggesting whoever does this, you/Steve/whoever give some feedback to while they work on it. For the volunteer organization challenged, this is called positive feedback. As you point out, the APRSINET documentation, what little exists, is disjointed and not coherent. Whoever takes this task on is at a distinct disadvantage as compared to the drafters of the APRSSPEC document. Your documentation going into that process was fairly complete.

You may want to reexam your volunteer requirements for APRSINET writer. I don't see how a coherent document can be developed in a vacuum. Some feedback will be required.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 21:04:26 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA05208
for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 21:04:25 -0500 (CDT)
Message-ID: <LYR11589-27800-2001.08.03-21.26.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 03 Aug 2001 22:05:51 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27675-2001.08.03-12.14.26--jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6B587F.B2A8814A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

"Sadowski, Allan" wrote:

>

> I have to concur with Jeff on this... at a minimum it should have been
> formally announced that the working group was re-opening itself to
> considering extensions..

Thanks Allan. It is good to see some clear focused thinking here suggesting a solution.

This really is a black and white issue. It either is, or it isn't. The excuses that this was not a formal proposal to the WG don't hold any water because the person making the proposal is the anchor (with 2 votes) of the WG. As such, lack of understanding of the process is not the issue. It either is, or it isn't.

> What's good for one should be good for all...

Advice well said.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 3 21:12:26 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA05526

for <lyris.aprsspec@tapr.org>; Fri, 3 Aug 2001 21:12:22 -0500 (CDT)

X-Sent: 4 Aug 2001 02:12:09 GMT

Message-ID: <LYR11589-27801-2001.08.03-21.34.15--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "Wes Johnston" <wes@johnston.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR22299-27739-2001.08.03-16.13.30--jeff#aerodata.net@lists.tapr.org>

<LYR11698-27795-2001.08.03-20.51.50--kd4rdb#netzero.com@lists.tapr.org>

Subject: [aprsspec] Re: SATGATE Specification (Draft)

Date: Fri, 3 Aug 2001 22:12:51 -0400

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <00fd01c11c8a\$f7615420\$0200a8c0@sc.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

can you take a hint and can the copying of the sig on this USELESS thread.
Drop it please.....

100% Wes

----- Original Message -----

From: "Jeff King" <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Friday, August 03, 2001 21:31
Subject: [aprsspec] Re: SATGATE Specification (Draft)

>
>
> Bob Bruninga wrote:
> >
> > On Fri, 3 Aug 2001, Jeff King wrote:
> >
> > > I don't trust the WG even exists or cares anymore. Maybe it is just
me,
> >
> > Yes, it is just you.
>
> Really? I've seen more then few say the same things here. Certainly the
lack of
> any activity or effort to replace the missing members makes it seem that
way.
>
>
> > And frankly, since 96% of all traffic on the
> > APRSSPEC list is just your continued rehashing of your continuing
> > complaints, probably most everyone else just ignores 100% of the
postings.
> > They have lives to live.
>
> 96% of all traffic? Care to document that claim?
>

> BTW, some people do take ethic's concerns (or complaints as you put it) seriously.

>

>

> > Thus, we cannot get anything done here when each technical posting results

> > in a week of drivell and dozens of useless rehashing of your endless

> > barnburning... Take this recent SATGATE proposal. I count ONE technical

> > feed back and 21 Emails about your bitching. That is why nothing gets

> > done here. No one wants to sort through all your BS to find the point at

> > hand.

>

> You really don't understand ethics do you? You have two votes on the WG, more

> then any single member. People who were NOT members of the working group have

> made similar amendment proposals in the past as you are now. There proposals

> were tabled for a latter time.

>

> All I am suggesting is if it is good for the goose, it is good for the gander.

> If you want your amendment considered, it is only fair and equitable that all

> the tabled amendments be considered.

>

> Why is this so hard to understand for you?

>

>

> > > but you have to admit, no official action has occured over a year.

> >

> > Sorry, we may not have done what YOU wanted, but we accomplished

> > quite a lot. Just a quick scan of the log and we did several things:

> >

> > 1) Resolved the use of NOGATE, RFONLY and other OPT-OUT mechanisms

>

> What I wanted? Actually, I was one of the big proponents of the "NOGATE"

> spec, so I guess I owe you some thanks. Where in the spec does it say this?

>

> > 8) Read through hundreds of rantings and ravings by Jeff

>

> Glad to be of service to you.

>

>

> > > you expect a person, on faith, to invest 1000 hours of there time when

> > > the WG may just be a black hole?

> >
> > I agree, most of your rantings and ravings go in the black-hole. They
> > are mostly of no technical merit, just constant complaining about how
you
> > want everyone else to do the work.. Each of the members of the WG has
> > invested not 1000 hours but more like 8,000 hours or more...
>
> Buzz light year, to infinite and beyond! So, let's see 10 members times
> 8000 hours = 80,000 man hours. Are you sure you might not be over
estimating?
>
> > > We don't complain. You are the only one that complains. We simply
state
> > > facts. That is... no one has drafted an IGate SPEC.
> > >
> > > So, Ian worked in a vacuum with no prior input from the WG and only
> > > presented the fully polished document. Come on, that is not how a
> > > protocol process works.
> >
> > YOU ARE RIGHT. THAT IS NOT HOW IT WORKS. Ian was given my COMPLETE
> > APRSdos PROTOCOL documents and from that he edited it into the SPEC
> > format. EVERYTHING WAS THERE. He EDITED it and pointed out any
conflicts
> > or errors and the WG worked to resolve those into a final document.
> > But 99% of the protocol WAS DOCUMENTED BEFORE the SPEC WORK even began.
>
> GOOD, now tell that to Steve. That is exactly what I meant. Ian had some
> kind of basis to work with, I start to assemble a basis to work with
> (Steve's 1% argument) and I am ignored/attacked over it by a principle.
>
> > Now, as we say over and over and over and over again to you JEFF, there
is
> > no draft IGate SPEC. And no matter how much you complain, there is no
> > SPEC for the APRS WG to review nor approve until SOMEONE prepares a
> > complete draft and submits it for review.
>
> I don't disagree with this statement, I'm just suggesting whoever does
this,
> you/Steve/whoever give some feedback to while they work on it. For the
volunteer
> organization challenged, this is called positive feedback. As you point
out,
> the APRSINET documentation, what little exists, is disjointed and not
coherent.
> Whoever takes this task on is at a distinct disadvantage as compared to
the
> drafters of the APRSSPEC document. Your documentation going into that
process

> was fairly complete.
>
> You may want to reexam your volunteer requirements for APRSINET writer. I
don't
> see how a coherent document can be developed in a vacuum. Some feedback
will
> be required.
>
> -Jeff
>
> ---
> You are currently subscribed to aprsspec as: kd4rdb@netzero.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 3 21:15:42 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA05917
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 21:15:40 -0500 (CDT)
Message-ID: <LYR11589-27804-2001.08.03-21.37.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 03 Aug 2001 22:17:09 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-27739-2001.08.03-16.13.30--jeff#aerodata.net@lists.tappr.org>
<LYR11698-27795-2001.08.03-20.51.50--kd4rdb#netzero.com@lists.tappr.org>
<LYR22299-27801-2001.08.03-21.34.15--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <3B6B5B25.E87D837A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Wes Johnston wrote:

>
> can you take a hint and can the copying of the sig on this USELESS thread.
> Drop it please.....
>
> 100% Wes

Ethics == Useless?

100% wrong

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Aug 3 22:13:16 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA09193
for <lyris.aprsspec@tappr.org>; Fri, 3 Aug 2001 22:13:15 -0500 (CDT)
Message-ID: <LYR11589-27813-2001.08.03-22.35.10--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 03 Aug 2001 23:14:48 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] WG protocol process (was Satgate)
References: <LYR22299-27689-2001.08.03-12.57.16--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6B68A8.969BDEAA@aerodata.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Missed a few insults earlier so now catching up. For the ones that don't know what a delete key is, just think of me as the nasty poodle on the WG's leg.

Bob Bruninga wrote:

>
> On Fri, 3 Aug 2001, Sadowski, Allan wrote:
>
> > I have to concur with Jeff on this... at a minimum it should have been
> > formally announced that the working group was re-opening itself to
> > considering extensions..
> <snip>
>
> Huh? Tabloid misinformation again?

What is "Tabloid misinformation" about this?

Seems like a fair proposal to me. Why do you a issue with playing fair in the sandbox?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 4 07:17:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA22928
for <lyris.aprsspec@tapr.org>; Sat, 4 Aug 2001 07:17:47 -0500 (CDT)
Message-ID: <LYR11589-27873-2001.08.04-07.39.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 04 Aug 2001 08:15:37 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
Reply-To: w2ev@arrl.net
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] NOGATE & RFONLY in the APRS(tm) spec? [was: SATGATE
Specification (Draft)]
References: <LYR22299-27739-2001.08.03-16.13.30--jeff#aerodata.net@lists.tapr.org>
<LYR21978-27795-2001.08.03-20.51.50--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6BE769.200B7569@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Bob B. wrote...

> > Sorry, we may not have done what YOU wanted, but we accomplished
> > quite a lot. Just a quick scan of the log and we did several things:
> >
> > 1) Resolved the use of NOGATE, RFONLY and other OPT-OUT mechanisms

Truth be told, I can't find NOGATE or RFONLY in the spec document. Did the APRSwg adopt it officially? On the other hand, RFONLY (along with [GR##ID]-in-comment) has been part of the BEACONet protocol for quite some time.

I would be suprised to find that it had been included, since I was an initial proposer of the alias, and hadn't had the opportunity to review how the function was documented so as to correctly describe it's personality should the APRS world wish to include it as a compatible alias.

Of course, several software authors have thankfully chosen to include this non-APRS yet BEACONet-friendly function in their product and have enjoyed the free advertising that comes along with having done so for the BEACONet community. Example: UI-View was featured in the May 2001 QST article. AHub will probably be placed in operation within the next 60-days as a BEACONet Internet system, and will probably be featured in future articles written about BEACONet, too. fwiw.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 4 08:02:42 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA25871
for <lyris.aprsspec@tappr.org>; Sat, 4 Aug 2001 08:02:37 -0500 (CDT)
Message-ID: <LYR11589-27883-2001.08.04-08.24.34--
lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Sat, 04 Aug 2001 09:00:31 -0400
From: Ev Tupis <w2ev@rochester.rr.com>
Reply-To: w2ev@arrl.net
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Focus [was: SATGATE Specification (Draft)]
References: <LYR22299-27727-2001.08.03-15.41.24--jeff#aerodata.net@lists.tapr.org>
<LYR21978-27793-2001.08.03-20.32.10--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6BF1EF.6C17BE8D@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As succinctly as I can put it...

- o Bob proposed an addition to the APRS(tm) Protocol Specification
- o Jeff asked about the process for official sanctioning of an APRS(tm) protocol addition/modification
 - See APRS Protocol Working Group Charter
 - = Section II, item 5

Yet, APRS(tm) Working Group Charter (available for viewing at: <http://www.tapr.org/tapr/html/Faprswg.html>), Section V spells the APRS(tm) Protocol proposal-process out pretty well -- leaving little to the imagination.

The first question is... (to the APRS wg): would someone point us to the website where the proposals are posted (APRSwg Charter, Section V, "Committee Operations and Community Input", Item 1)? There, we should see things like the RFONLY/NOGATE proposal, maybe?

That should go a long way to settle alot of misunderstanding and misinformation. Thanks, guys!

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 07:26:49 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA13151
for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 07:26:46 -0500 (CDT)
Message-ID: <LYR11589-28102-2001.08.05-07.48.48--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Sadowski, Allan" <allan.sadowski@ncshp.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
Date: Sun, 5 Aug 2001 08:27:25 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <BF01BF9F0651D311B7A100104B716B9001A94BF6@shpmail.ncshp.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I certainly respect your opinion Wes... also Bob's and Steve's... and mine is that I think Jeff has some valid points... like a now retired good Boss told me... ignore the tone of how the message is delivered... pay attention to the actual content... a frustrated customer cannot help but have a poor attitude and tone of voice... but in all likelihood there is good information in their lament... focus on the content of the message and how that will improve the product not on the tone and attitude of the delivery - then we will be able to deliver better service to all eventually.

I'm on a we should thank the US Department of Defense more often kick today... pardon my editorial.

Yes, Bob started GPS packets over RF for ham radio... (though the Military did the same before APRS) and we have him to thank for bringing this to Ham radio... and Steve has made the same information readily available via internet connectivity (which also came from the Military)... they did what they did (both significant and painful efforts) - not by a formalized process and committee - but by individual efforts... kudo's to them both because these efforts were NOT Trivial... and they've both taken heat from complainers and do-nothings - ever since.... I'm sure they are tired of it... However, I have to admit Jeff has valid points... having been part of some non hobby - military and industry efforts - it has been my experience that there are leaders who talk a lot (and shape the direction of the effort)... but they are but no means the most significant contributor... just the most visible one... that group efforts are in fact the rule, and

that many significant contributions really have been made by time limited individuals... but more to the point... that the formal review and approval process - which built the internet by the way - has time and again made a significant difference to the benefit of all in the end. I wish I had a dime for every attempt I've dealt with on the part of a vendor... to make proprietary extensions to a standard.... and I am so thankful for the review process (as Ian did) as it was a way to catch those (and other) issues before they became bigger problems.

So, as I understand Jeff's comments - I think he has a valid point - - - that the process for APRS protocol additions and changes should be equitable - that other proposals have been made here and not considered... and that there's some question about the continued viable existence of the working group. I ignore the rest (because I am very interested in the answers to those three questions).

I may be wrong, but I think Jeff's question raised a good point... if we are going to consider Bob's extensions (and there is a short time to bring that in line due to the upcoming launches) - then that was a clue that the working group was considering extensions and changes... so let's get those others on the table - and that a announcement of these extensions is also appropriate. After all, we were told here in the past that no additions or extensions were being entertained by the working group until the initial spec was captured... and since the SPEC was "published" - proposals have been ignored or publicly slammed here on the SIG as non-compatible.... well I for one would like the working group to please re-state here on the spec discussion list... what the process is for proposing additions to the spec - and who gets to review them - who determines they are blessed? and what is the priority for review? and.. oh by the way... (I can take a hint... but I have to ask) are extensions and modifications even being accepted at all yet - because I never saw an announcement of such - not that there was a requirement... but courtesy would have made it nice. Do I just throw them out on this list again??? Then what will be the process for review and inclusion... just Bob saying yes or the WG getting together behind closed doors? (I'm being sarcastic - not serious I hope)...

Yes Wes... I too see rather "emotional" and inflammatory statements being made... but they are coming from all parties... statements that seem to be more in the vein of a personal attack rather than provide useful content.... and personal attacks stated in a way to appear as questions... does not make them any less of an attack... But this SPEC discussion list was started to get spec "discussions" off the primary SIG list... so I'm hoping to hear more about the formal process ... and I'm willing to ignore the frustrating tone of the messages... in hopes of learning something... and maybe ultimately finding out how the process is going to work for extensions and modifications... and to hear how the Working Group (which was exclusionary when it was established) is going forward... on Bob's proposal... and hopefully some from other lesser individuals (sarcasm again) !!?!?!?

Keep'm coming is what I say... just tone down the personal attacks... I learn from most of this commentary so let's make some progress here and get some answers - rather than deflecting the questions with personal attacks!!!

TNX

ALOHA

AH6LS

> -----

> From: Wes Johnston[SMTP:wes@johnston.net]

> Subject: [aprsspec] Re: SATGATE Specification (Draft)

>

> can you take a hint and can the copying of the sig on this USELESS thread.

> Drop it please.....

>

> 100% Wes

>

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 08:58:20 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA19247

for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 08:58:19 -0500 (CDT)

Message-Id: <LYR11589-28110-2001.08.05-09.20.19--

lyris.aprsspec#tapr.org@lists.tapr.org>

Subject: [aprsspec] Re: SATGATE Specification (Draft)

Date: Sun, 5 Aug 2001 09:53:31 -0400

x-sender: sdimse@earthlink.net

From: Steve Dimse <k4hg@tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <200108051353.GAA26423@snipe.mail.pas.earthlink.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On 8/5/01 8:27 AM Sadowski, Allan (allan.sadowski@ncshp.org) wrote:

>I may be wrong, but I think Jeff's question raised a good point... if we
>are going to consider Bob's extensions (and there is a short time to bring
>that in line due to the upcoming launches) - then that was a clue that the
>working group was considering extensions and changes... so let's get those
>others on the table -

The point which seems to have gotten lost in the noise is that Bob's proposal had absolutely nothing to do with the APRS spec or the APRS WG.

The APRS Internet System is not documented or managed by the APRS WG. Should it be? Yes, but it is not because there is no one to do the grunt work of writing the spec. Jeff tried to make that TAPR and the APRS WG's fault, because he began the process but no one stepped forward to help him. Then he calls me arrogant because I tell the truth, that there must be a single person willing to lead the effort, and there presently is no person to be the Ian of the APRS IS spec. Jeff would have you believe that he is the guy that can lead a project full of open source documenters, but if that were the case, it would be happening now, and Jeff would have nothing to complain about, or at least he'd be too busy to do so.

So, with the APRS WG unable to make any changes in the APRS Internet System, Bob took his proposal to this list, hoping to get the individuals that write APRS IS software to make the changes. This does not signal that the APRS WG is considering any changes to the APRS spec, any more than if Bob adds a feature to his program it means it is endorsed by the APRS WG. We all have many different roles, everything Bob says doesn't involve the APRS WG, everything I say doesn't involve my role as a board member of TAPR. To me, it is pretty clear which hat I'm wearing at any given time, but I can see how it might be confusing to others, and in the future I will try to make such things clearer, perhaps Bob will do so as well in order to avoid future misunderstandings.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 09:56:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA23597
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 09:56:23 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 10:56:02 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SATGATE Specification (Draft)
In-Reply-To: <LYR11586-28102-2001.08.05-07.48.48--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-28123-2001.08.05-10.18.26--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.05L.10108051049390.885-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 5 Aug 2001, Sadowski, Allan wrote:

> I may be wrong, but I think Jeff's question raised a good point... if we
> are going to consider Bob's extensions.. - then that was a clue that the
> working group was considering extensions and changes...

I SAY AGAIN. I AM NOT PROPOSING ANY EXTENSIONS TO THE APRS SPEC!

LET ME BE PERFECTLY CLEAR:

WHAT I ASKED FOR WAS A WAY TO IDENTIFY SATELITE PACKETS THAT WOULD WORK
WITHIN THE EXISTING IGATE SYSTEM.

READ MY LIPS: "WITHIN THE EXISTING IGATE SYSTEM"

THUS I AM NOT PRPOSING ANY "EXTENSIONS" or "ADDITIONS". To do such would
be ludicrous in this environment and it would never happen due to the
process you have just witnessed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 10:00:34 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA24037
for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 10:00:29 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 11:00:16 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Focus [was: SATGATE Specification (Draft)]
Message-ID: <LYR11589-28124-2001.08.05-10.22.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GSO.4.05L.10108051059190.885-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 4 Aug 2001, Ev Tupis wrote:

> As succinctly as I can put it...
>
> o Bob proposed an addition to the APRS(tm) Protocol Specification
> o Jeff asked about the process for official sanctioning of an
> APRS(tm) protocol addition/modification

WRONG. I MADE NO SUCH PROPOSAL. I AM INVOLVED IN A LAUNCH OF A
SATLLELLITE THAT WE MUST DELIVER IN 3 DAYS, AND LAUNCH IN 3 WEEKS.
I SIMPLY MADE A POST TO *ANYONE INTERESTED* IN WHAT I NEEDED ON THE GROUND
TO SUPPORT THE IGATING OF THE SATELLITE DATA INTO THE APRS SYSTEM.

FORGET I EVER POSTED IT ON THE APRSSPEC LIST.

THIS IS NOT AN IGATE SPEC PROPOSAL,
IT IS NOT A SUGGESTION FOR AN ADDITION TO THE APRSSPEC.

If AUTHORS want to work towards helping with this project, I put the
requirement out in the public domain. If anyone wants to contribute,
please do. If all you want to do is quibble about proceess, leave me
alone. I have too much else to worry about right now..

de WB4APR, Bob (NOT acting in any way as the APRSWG).

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 12:47:24 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA08107
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 12:47:22 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-28138-2001.08.05-13.09.24--
lyris.aprsspec@tapr.org>
Date: Sun, 05 Aug 2001 12:48:35 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: Da House
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Truce for 1 month
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6D86F3.7D5568A4@cs.tamu.edu>
Precedence: bulk

I'm suggesting we fall back, and give Bob a break on this for the next month.

I've been where he is now in the delivery schedule for Flight. I suggest he doesn't need any extraneous distractions, discussions, etc until his bird is on orbit.

I think we all have enough food for thought to work from, and I'd ask that we table the discussion until 15 SEP 2001, to let Bob get past delivery, launch, and well into on-orbit checkout.

Bob, good luck with the flight. We're rooting for you.

73, gerry n5jxs

--

Gerry Creager -- gerry@cs.tamu.edu

Network Engineering

Academy for Advanced Telecommunications and Learning Technologies

Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 13:17:52 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA09911

for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 13:17:50 -0500 (CDT)

Message-ID: <LYR11589-28144-2001.08.05-13.39.51--

lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Sun, 05 Aug 2001 14:14:48 -0400

From: Ev Tupis <w2ev@rochester.rr.com>

Reply-To: w2ev@arrl.net

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] SGate/IGate Re-focus :o)

References: <LYR21978-28124-2001.08.05-10.22.31--

w2ev#rochester.rr.com@lists.tapr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <3B6D8D18.72C5F811@rochester.rr.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

/reaction to all-caps reply/ I simply restated what I heard people saying, Bob. No attack was intended -- though your frustration was difficult to overlook :o). Interestingly, your response forced further research on my part, which is a good read for anyone interested.

Bob is **absoultyly** correct in his message. I had to go back to the

original posting and re-read it carefully to understand that, though.

His proposal has **nothing** to do with the APRS(tm) Protocol Specification.

By definition, the APRS(tm) Protocol Specification deals only with RF issues.

By definition, the SGate function (if I can coin a phrase) that Bob had floated takes place **after** the frame has been received by SGate/IGate station, and **before** the frame is passed through it's IGate port...with the Internet as its destination. No RF is involved. Bob is not proposing that a new "digipeater alias" be established that RF stations would insert into their transmit frame. All of the processing that is proposed takes place after the frame is no longer RF in nature. Therefore, it is not an APRS(tm) Working Group issue (by it's own statement of purpose).

This is not unlike the development that Steve undertook in establishing an Internet Protocol. Bob was simply posting it for public scrutiny (not approval) so that wrinkles could be worked out of it (and at least one has, by the way).

By the way...there are those that would see this differently:
"> THIS IS NOT AN IGATE SPEC PROPOSAL,". Yet, that doesn't change anything as there is no sanctioning body established to regulate that either.

Have at it, Bob and crew. This is an interesting thread (when kept on topic <smile>). Please keep the thread on this list, though. I'm here to learn from reading the mail.

I can hardly wait to start flooding your new satellite with 24/7/365 beacons with high power and a tracking antenna. <you KNOW that i'm just kidding, don't you?> :o) Best wishes in your new endeavor.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 13:28:14 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA10895
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 13:28:13 -0500 (CDT)

Message-Id: <LYR11589-28148-2001.08.05-13.50.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: jjeffers@deskmedia.com
Date: Sun, 05 Aug 2001 13:29:11 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: James Jefferson <jjeffers@deskmedia.com>
Subject: [aprsspec] Re: Truce for 1 month
Cc: aprsspec@lists.tapr.org
In-Reply-To: <LYR19704-28138-2001.08.05-13.09.24--jjeffers#deskmedia.com
@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4.2.0.58.20010805132733.00b01100@deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>I think we all have enough food for thought to work from, and I'd ask
>that we table the discussion until 15 SEP 2001, to let Bob get past
>delivery, launch, and well into on-orbit checkout.

We can't really do that Bob was bringing up his proposal because he
needs it right away when the bird gets up.

-James Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 15:35:52 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA19074
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 15:35:48 -0500 (CDT)
Message-ID: <LYR11589-28161-2001.08.05-15.57.51--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 16:37:01 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Truce for 1 month
References: <LYR22299-28148-2001.08.05-13.50.16--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DAE6D.7C9E6484@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

James Jefferson wrote:

>
> >I think we all have enough food for thought to work from, and I'd ask
> >that we table the discussion until 15 SEP 2001, to let Bob get past
> >delivery, launch, and well into on-orbit checkout.
>
> We can't really do that Bob was bringing up his proposal because he
> needs it right away when the bird gets up.

Yes, and the discussion had nothing to do with the specific's of Bob's proposal, just the mechanism that the WG has in place (or not) to allow additions to the protocol. There is no reason this cannot be done in parrall.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 15:53:27 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA20960
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 15:53:24 -0500 (CDT)
Message-ID: <LYR11589-28164-2001.08.05-16.15.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 16:54:11 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SGate/IGate Re-focus :o)
References: <LYR21978-28124-2001.08.05-10.22.31--
w2ev#rochester.rr.com@lists.tappr.org> <LYR22299-28144-2001.08.05-13.39.51--
jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6DB273.79B962E4@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Ev:

(Bob, skip to the part that says "-- A possible solution --")

Ev Tupis wrote:

> By definition, the APRS(tm) Protocol Specification deals only with RF
> issues.

The charter doc does say this in certain places, it also doesn't say this in certain places. You might want to review it again, since you were in fact that one that got me looking at it, and in fact pointed out some glaring holes.

Also, SSID's are a AX.25 protocol issue. By definition, AX.25 is a over the air protocol. They might be applied different, but this does make the whole issue muddy and is a justification for bringing these hard questions up.

In any case, my concern, one of your claimed concerns, and also Allen's had less to do with the semantics here of the document and more to do with just what is morally right. People have had amendments on the table for some time. The fact that I brought this up is not to impede or imply in any way Bob's wasn't needed, just that other people deserve to know what is going on with their hard work.

I'm seeing alot of people using parts of the WG charter to declare moral victory here. Problem with that is, what about the rest of the charter, as you yourself pointed out. Why should we use parts of it as defenses for out actions while ignoring other parts altogether? It either is, or it isn't. Why is this such a hard concept for some to grasp?

Nobody gets it, or they would rather call names, but it really is a black and

white issue. People are more concerned about being right then fixing the problem. The WG, in its current state of limbo, is a impediment to progress. How many new additions to the over the air protocol had we had in the time since May of 1999 vs the same time period before May of 1999? Before others (not you Ev) are going to start calling names, answer that simple question.

And Ev, do you think the APRS over the air spec, in its current shape, answers all you needs? Answer this question please.

The fact that Bob is the anchor member of the WG (2 votes) is the reason I brought this up, as it best showed the inequities of the process. We CANNOT address, or use, one part of the charter as a defense to our actions while completely ignoring other parts of it. To be taken serious, it HAS TO BE a black and white issue.

-- A possible solution --

Now, we discussed off line ways to solve this. I really don't think we should simply drop this because it hurts our fingers to type it. You know and I know it will keep coming up again. I think we agreed that the present status of the WG is one of three things:

The WG still exists, but is inactive
The WG has been disbanded
Or nobody knows.

The end result of all this is a state of limbo, which quite frankly is WORSE then what we had before the WG existed.

So, how do we solve this? We know in any scenario, Bob has to be a central part of the process. But we can't let the process get caught up in the muck of indecision that it is now. This only hurts progress.

As I suggested to you in private e-mail, one solution would be to recognize Bob as a benevolent dictator of APRS, aka Linux Tovalds. This is a *good* term, and does not imply complete control. It just implies, per the Linux model, a guiding hand in the progress of the system.

Specifically, what I suggested to you had two OR trigger points. If something is

to be
added to the protocol stack is requires one of two things:

1. Bob thinks it is a good thing to add
- OR
2. Someone else has run it through the peer review session and gotten a GUI/end user application to support it.

So, in other words, you either need to convince Bob of the worth of the addition, or get community support of the addition. In the case, the community really does mean just that, it would be open to membership of all that were interested and would contribute.

Now, to manage this process, as I mentioned also to you, you could use such open source management tools as source forge. See <http://www.sourceforge.com> The nice thing about this process is that it does allow us that only have a occasional 5 or 10 hour a week block to devote to this to actively contribute useful stuff. Gone are the days (or it should be) that APRS is the exclusive domain of those that can devote 1000's of hours to writing GUI applications, those of us that can contribute less, but still valuable things, should also be allowed to participate. Most of the real world recognizes this, yet I fully agree we need a champion.

A couple people on the SIG have already spoken up thinking the source forge idea for the APRSSPEC is a good idea, in past postings I have made. I won't name their names due to this firefight, but I'd like those that have taken the time to go this far in the message to say if they feel it is a good idea, or a bad idea, in the context of moving things forward. Please, no private E-mail saying good idea, it is going to take some grassroots effort to make this happen.

-- Bob -- (and also see above)

Bob, if you think this is a good idea, I think all you really need is some grassroots support. As someone pointed out to me in private E-mail (the legal definitions of

the
termage used in the WG charter), this language only applies to corporations. Since
the
WG never incorporated, there is nothing stopping you from doing this, although I
think
the principles of the WG should be a part of any new charter, or simply remain the
same.
Maybe it is as simply as just changing the comment process.

Anyways, lets here what you think, and move forward. In the affirmative, I'll
research the
sourceforge docs more and help you set it up (or there are others here that can
help if
you would rather me stay out of the process..... I understand).

I just hate limbo.

73

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:13:15 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22068
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:13:11 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-28168-2001.08.05-16.35.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 16:13:24 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: Da House
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Truce for 1 month
References: <LYR22347-28148-2001.08.05-13.50.16--gerry#cs.tamu.edu@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6DB6F3.F2D8668F@cs.tamu.edu>
Precedence: bulk

It seems unlikely that we're going to definitively resolve anything in the remaining time. So, let's do this launch like Bob suggests and then continue in a less time-constrained fashion to achieve consensus.

gerry

--

James Jefferson wrote:

>

> >I think we all have enough food for thought to work from, and I'd ask
> >that we table the discussion until 15 SEP 2001, to let Bob get past
> >delivery, launch, and well into on-orbit checkout.

>

> We can't really do that Bob was bringing up his proposal because he
> needs it right away when the bird gets up.

--

Gerry Creager -- gerry@cs.tamu.edu

Network Engineering

Academy for Advanced Telecommunications and Learning Technologies

Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 16:19:57 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22550

for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 16:19:47 -0500 (CDT)

Message-ID: <LYR11589-28169-2001.08.05-16.41.51--

lyris.aprsspec#tappr.org@lists.tappr.org>

Date: Sun, 05 Aug 2001 17:21:14 -0400

From: Jeff King <jeff@aerodata.net>

Organization: Aero Data Systems, Inc.

X-Accept-Language: en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] [Steve Dimse -aprsspec] Re: SATGATE Specification (Draft)

References: <LYR22299-28110-2001.08.05-09.20.19--jeff#aerodata.net@lists.tappr.org>

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DB8CA.D7E344CD@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Mr. Dimse:

Steve Dimse wrote:

> The APRS Internet System is not documented or managed by the APRS WG.
> Should it be? Yes, but it is not because there is no one to do the grunt
> work of writing the spec. Jeff tried to make that TAPR and the APRS WG's
> fault, because he began the process but no one stepped forward to help
> him.

Then specifically document your claims, otherwise apologize for your continued dishonesty and personal attacks towards me.

> Then he calls me arrogant because I tell the truth, that there must
> be a single person willing to lead the effort, and there presently is no
> person to be the Ian of the APRS IS spec.

I call you arrogant because you were acting this way. Hey, even Bob disageed with your statement above, yet you keep making it a "Jeff" issue. Again, and parroting Bob's words, the APRSINET spec does not exist/is a mess. The APRSSPEC

DID exist pre Ian and this is what Ian worked off of. This is a completely different

animal and the APRSINET SPEC has to be approached in a cooperative way, at least until all the spec data is gather from all the papers, source codes and random postings

you have made over the years. Bob did a very good job documenting the APRS over the air spec, you did not. No cut on you, but if you don't believe me, take a look at some of his pre WG APRSDOS releases. Just stating a fact, and this fact makes a difference how we approach the task.

But that is not in any way to lessen the technical writing and verification efforts

of Ian, but we are still a long way from a technical writing exercise. My source forge

suggestion may be a even better fit for the APRSINET spec.

> Jeff would have you believe
> that he is the guy that can lead a project full of open source
> documenters, but if that were the case, it would be happening now, and
> Jeff would have nothing to complain about, or at least he'd be too busy
> to do so.

No, not all all. I simply stated it was discouraging that the author of APRSSERVE, when repeatedly asked to comment on a rough draft outline, refused to do so. This person was you. That is all. You have no obligation to do this, but it was just discouraging. You are a different person then Bob. And that is not to say I won't start back up, but in a volunteer group, it is wise to give some positive reenforcement occasionally.

In any case, read what I say, not what you want to hear.

> We all have many different roles, everything Bob says doesn't
> involve the APRS WG, everything I say doesn't involve my role as a board
> member of TAPR.

Ahhh.... the Clinton defense. Well, to some degree you are right, but it just seemed a good time to bring this issue to the forefront when the anchor member of the WG was proposing additions to the spec when others additions have been tabled for more then a year. Don't you see the irony in this, even if it was not intentional?

The thing I really don't understand, is in private e-mail to me you have repeatedly shared your views that the APRS-WG is dead/canatonic and will not move forward. Yet here you are time and time again publicly excusing the inaction's. That is fine, but I am more interested in a solution, then a excuse. Lets stop throw darts at each other and talk progress. And who knows, maybe one of those 1%'ers might make a difference.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:29:39 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA22800
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:29:38 -0500 (CDT)

Message-ID: <LYR11589-28172-2001.08.05-16.51.41--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 17:31:02 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Truce for 1 month
References: <LYR22347-28148-2001.08.05-13.50.16--gerry#cs.tamu.edu@lists.tapr.org>
<LYR22299-28168-2001.08.05-16.35.06--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DBB16.A27A876A@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Gerry:

I think the only one standing in your way is yourself. Resolve the technical issues. But DON'T connect the ethical and technical issues and say progress cannot happen. And by the same token, don't glibly dismiss the ethical issues.

I think it is time someone stood up to the bullies, and resolve this issue. It is too bad many can only do it in private e-mail, but I do commend the few that have been able to do it in public.

The APRS-WG is broke. It needs to be fixed, or it needs to declare victory, disband and allow another mechanism to come into place. There are no gray areas here. It is a black and white issue. You know this.

Then if we do nothing, it is only our own fault.

-Jeff

Gerry Creager N5JXS wrote:

>
> It seems unlikely that we're going to definitively resolve anything in
> the remaining time. So, let's do this launch like Bob suggests and then
> continue in a less time-constrained fashion to achieve consensus.

>
> gerry

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:37:29 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23402
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:37:26 -0500 (CDT)
Message-ID: <LYR11589-28175-2001.08.05-16.59.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Jerome M. Kutche" <n9lya@blueriver.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
References: <LYR23652-28148-2001.08.05-13.50.16--
n9lya#blueriver.net@lists.tapr.org>
Subject: [aprsspec] Re: Truce for 1 month
Date: Sun, 5 Aug 2001 16:37:12 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2479.0006
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <001d01c11df6\$ca765ec0\$59432bd1@mshome.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

He basically said... He no longer wants input from aprspsec group as they
have just lost control of themselves.. And he is sorry he even posted to
this group.

Personall I don't blame him...

You ask a question and get nothing back but Flames/...

----- Original Message -----

From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Cc: <aprsspec@lists.tapr.org>
Sent: Sunday, August 05, 2001 1:29 PM
Subject: [aprsspec] Re: Truce for 1 month

>
> >I think we all have enough food for thought to work from, and I'd ask
> >that we table the discussion until 15 SEP 2001, to let Bob get past
> >delivery, launch, and well into on-orbit checkout.
>
> We can't really do that Bob was bringing up his proposal because he
> needs it right away when the bird gets up.
>
> -James Jefferson KB0THN
>
> ---
> You are currently subscribed to aprsspec as: n9lya@blueriver.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:43:24 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23659
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:43:21 -0500 (CDT)
Message-Id: <LYR11589-28178-2001.08.05-17.05.22--
lyris.aprsspec@tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: [Steve Dimse -aprsspec] Re: SATGATE Specification (Draft)
Date: Sun, 5 Aug 2001 17:43:09 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108052143.0AA03915@avocet.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/5/01 5:21 PM Jeff King (jeff@aerodata.net) wrote:

>> The APRS Internet System is not documented or managed by the APRS WG.
>> Should it be? Yes, but it is not because there is no one to do the grunt
>> work of writing the spec. Jeff tried to make that TAPR and the APRS WG's
>> fault, because he began the process but no one stepped forward to help
>> him.

>

>Then specifically document your claims, otherwise apologize for your
>continued dishonesty and personal attacks towards me.

>

Jeff, there has been no dishonesty on my part, nor do I think on your part. The first personal attack in this thread came from you. Anyone on this list has gotten all the posts, I see no need to quote the specific sections where you accuse TAPR, Bob, the APRS WG, and myself of failing to complete the task you barely started.

I also see no need to continue trying to tit-for-tat you. I leave it to all on this list to decide which of us to place their trust behind.

>And who knows, maybe one of those 1%'ers might
>make a difference.

>

I guess we just have a difference of opinion there. Absolutely there are 1%'ers out there that will make a difference, I was one once, so were the Sprouls, and all the rest, and we all made differences. Where we differ is I say the difference will not be made while they remain 1%'ers. Bob isn't a 1%'er, nor are the Sprouls, Frank, Byon, Brent, Mike, Rob, myself, or any of the others that created the APRS of today. Some people, for whatever reason, step forward and make an individual effort that changes things.

Maybe your highest aspiration is to be a 1%'er, but I aim higher. Perhaps that's why I achieve more.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:45:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA23773
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:45:56 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 17:45:39 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SGate/IGate Re-focus :o)
In-Reply-To: <3B6DB273.79B962E4@aerodata.net>
Message-ID: <LYR11589-28179-2001.08.05-17.07.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108051723390.10932-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 5 Aug 2001, Jeff King wrote:

> coming up again. I think we agreed that the present status of the WG
> is one of three things:
>
> The WG still exists, but is inactive
> The WG has been disbanded
> Or nobody knows.

Jeff,

How many times do we have to go through this. The above is absolutely wrong and misleading to everyone. And who are the "we" that "agrees" to the above? Let me say it over and over again.

The WG exists. The RF Spec version 1.0 is complete. We are now ready to review and discuss a draft specification for the Internet portion of APRS. We need someone to document the IGate Specification so that there is something to review.

We need someone with the time, experience, and knowledge to draft the spec for review. In the volunteer world of amateur radio, harping about others never accomplishes anything. Until someone steps forward with the time, experience, knowledge and desire to draft the spec, we have nothing to review and "approve".

SPeaking for my self as a member of the WG, I will not be favorable to any significant changes to the APRS spec until I see the Internet side of

things documented so we have a clear idea of where we are starting from. In case you have not noticed, I would say that the INTERNET side of APRS has continued and will continue to be the LARGER piece of the APRS pie.

Right now there is nothing on paper to review. No one knows how the Internet side of APRS works except for the pieces of code in about 10 authors software. And we have no guarantee that any of it works together.

I say again, until we document what we have, I am (as you say) opposed to getting all wrapped around the axle with changes to something we cannot see. When the WG was first formed, the 1st thing on the agenda was to document the RF spec. The 2nd thing was the IGate spec. We are still on that schedule.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 16:59:19 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA25011
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 16:59:13 -0500 (CDT)
Message-ID: <LYR11589-28180-2001.08.05-17.21.17--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 18:00:39 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [Steve Dimse -aprsspec] Re: SATGATE Specification (Draft)
References: <LYR22299-28178-2001.08.05-17.05.22--jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6DC207.965444D4@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>

Steve Dimse wrote:

> I also see no need to continue trying to tit-for-tat you. I leave it to
> all on this list to decide which of us to place their trust behind.

But that is exactly the point I was mentioning. You are so concerned about being right you are loosing focus of the fact the APRS-WG is broken and have carefully avoiding in any of these postings talking about it. Hey, I already know I am blacklisted in some of the groups here, that goes without saying. So I am more then happy to fall on my sword if we can get some progress in something that does make a difference to me.

I don't want tit-for-dat, just progress. Address your thoughts on this.

> >And who knows, maybe one of those 1%'ers might
> >make a difference.
> >
> I guess we just have a difference of opinion there. Absolutely there are
> 1%'ers out there that will make a difference, I was one once, so were the
> Sprouls, and all the rest, and we all made differences.

Yes you where. I was a "1%'er" in the TAPR SS process once, and then went far beyond that becoming very actively involved in the STA testing. Yet what we have in common here is that we were both involved at the beginning of the process, aprs in your case, SS in mine. By 1%'er, I am referring to someone that enters a process that is more mature.

> Where we differ
> is I say the difference will not be made while they remain 1%'ers. Bob
> isn't a 1%'er, nor are the Sprouls, Frank, Byon, Brent, Mike, Rob, myself,
> or any of the others that created the APRS of today. Some people, for
> whatever reason, step forward and make an individual effort that changes
> things.

Right.

> Maybe your highest aspiration is to be a 1%'er, but I aim higher. Perhaps
> that's why I achieve more.

Can you explain the above to me? You claim not to be making personal attacks, and as you know I have been far far more then a 1%'er in certain areas of

APRS and other areas, so I can't see how the above can be yet another dishonest personal attack. Now, I don't beat my chest as much as you, nor target my activities

to attack the most attention to myself, but I am far far more then a 1%'er and you know this. I only agreed with you the effort I started on the INET draft was only 1%, and you know this.

Or don't you have enough personal integrity to address this direct question to you?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 17:16:43 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA26622
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 17:16:38 -0500 (CDT)
X-Originating-IP: [63.14.168.249]
From: "Brad Trogdon" <bftrogdon@msn.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Enough...
Date: Sun, 05 Aug 2001 18:16:28 -0400
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-28185-2001.08.05-17.38.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 05 Aug 2001 22:16:28.0624 (UTC)
FILETIME=[45FCBD00:01C11DFC]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F27QYx3G5aYY61LEdyt000002bc@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Enough is enough. This is not progress or is it an informative SIG any longer. Some one EMail me when the SIG gets back to business usual and I will again subscribe. Till then have at it....

This is the last Msg I wish to see for a while.....

As you requested and confirmed, you have been unsubscribed from 'aprsspec'.

W4INT

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 17:58:53 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA29101
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 17:58:48 -0500 (CDT)
Message-ID: <LYR11589-28192-2001.08.05-18.20.49--
lyris.aprsspec@lists.tapr.org>
Date: Sun, 05 Aug 2001 19:00:22 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SGate/IGate Re-focus :o)
References: <LYR22299-28179-2001.08.05-17.07.55--jeff@aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=iso-8859-1
X-MIME-Autoconverted: from 8bit to quoted-printable by home.nuge.com id SAA05652
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6DD006.A4B3EF8@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id RAA29101

Bob Bruninga wrote:

>

> On Sun, 5 Aug 2001, Jeff King wrote:
>
> > coming up again. I think we agreed that the present status of the WG
> > is one of three things:
> >
> > The WG still exists, but is inactive
> > The WG has been disbanded
> > Or nobody knows.
>
> Jeff,
> How many times do we have to go through this.

Until it is resolved?

> The above is absolutely
> wrong and misleading to everyone.

What is wrong? You had three choices:

1. The WG still exists, but is inactive
2. The WG has been disbanded
3. Nobody knows.

> And who are the "we" that "agrees" to the above?

Well.....

John Ackermann N8UR, a member of the WG, wrote on 8/3/01:

(with regards to Bob's proposal)

> I can assure you that the WG is not working on
> this, or frankly any other, proposal.
>
> Whether the WG is still alive or not is a good question.

So, I hope you can excuse my confusion here. As to the other "we's", well they can step forward if they want, but to be safe here I'll be a advocate of #3.

> The WG exists.

Maybe, yet you don't disagree the process is broken? I noticed you and others have carefully avoided the WG charter compliance issues that Ev and Allen pointed out.

> The RF Spec version 1.0 is complete. We are now ready to
> review and discuss a draft specification for the Internet portion of APRS.
> We need someone to document the IGate Specification so that there is

> something to review.

Yes, no doubt there, but where in the charter does it say this is the next step? I was told time and time again on this list that the internet spec encapsulates the over the air spec, hence IMHO, it seems there is room for parrall development here.

> SPEaking for my self as a member of the WG, I will not be favorable to any
> significant changes to the APRS spec until I see the Internet side of
> things doucmented so we have a clear idea of where we are starting from.

But don't you see what you are doing here? There are two distinct issues here, you keep trying to roll them into one, when they are not.

I've seen no substantive proof that the WG even exists and that the charter is being complied with. Others pointed questions to this by others have also been ignored.

> RIGht now there is nothing on paper to review. No one knows how the
> Internet side of APRS works except for the pieces of code in about 10
> authors software. And we have no guarantte that any of it works
> together.

Yeap, thanks for agreeing with me that the APRSINET process is a far cry from where the APRSSPEC process started. As such, it will require a cooperative issue, it's own WG so to say, as the information first has to be collected together before a technical writer even sees it.

But that is not the point and has nothing to do with if the present WG is broken.

> I say again, until we document what we have, I am (as you say) opposed to
> getting all wrapped around the axle with changes to something we cannot
> see.

Has a vote been taken on this? Still doesn't dismiss the need to comply with the charter, but would be good to see there is someone besides yourself willing to speak on the behalf of the WG. You know, kinda like the group still exists.

> When the WG was first formed, the 1st thing on the agenda was to
> document the RF spec. The 2nd thing was the IGate spec. We are still on
> that schedule.

Did you change the charter? Lets take a look at the charter, and see what it has to say about your claims above, in particular the work plan and assignments. One can find the charter at:

ftp://ftp.tapir.org/aprssid/aprssid/spec/announcements/APRSWG_charter.pdf

APRS-WG Charter said:

--

Page 2:

4. The Group will formalize the APRS on-air Protocol Specification and publish a definitive APRS protocol document. Present plans are to make the specification in book and diskette form, and possibly to provide it via electronic distribution.
5. A process will be put in place to define how changes to the protocol specification are made, and that process will permit input, review, and comment by the Amateur Radio public.
6. The Group will put a voluntary APRS certification process in place, to be managed by Bob Bruninga with Group oversight. The process will include a publicly available validation suite.

--

Lets take a look at this point by point:

- 4: Completed
- 5: What is this process?
6. Not complete(?)

Page 2:

The APRS Protocol Specification is the formal definition of the data elements and message formats used to communicate between APRS devices via wireless or wired (e.g., Internet) connections. It does not include user interface or other elements that do not affect the content or format of these interface components. The Protocol Committee, which presently consists of all Members, is responsible for the APRS Protocol Specification. It manages the process for publishing and updating the Specification, and for receiving public comment on proposed changes.

--

Reading this, this implies that both the over the air, and the internet side are part of the APRS Protocol Specification. Further, it seems to imply that the protocol committee is responsible for both aspects, over the air and internet. There is not a different process for each aspect. One could assume that both aspects would be handled in the same manner. I', *not* trying to suggest others do the work, I'm just trying to give you further proof the WG is broken and needs to be fixed, one

way or the other.

Page 2:

The Protocol Specification will define iMandatoryî and iOptionalî elements, and will take into account the requirements for various types of APRS-compatible products.

I don't see this anywhere in the spec, even though I and others suggested this. Again, not complaining, but this was a key part of the process, and not completing it because the INET is not done, implies the charter is "broken".

Page 3:

Committee Operations and Community Input

Input from the APRS user community, other APRS developers, and the Amateur Radio community at large is a key component of the protocol development process. To ensure

this input, the following process will be used to amend or revise the Protocol Specification:

1. Proposed revisions to the Specification may be submitted by any person, and will be published at the Group web site.

Many things were submitted, they were deferred because the protocol committee was busy working on the draft over the air protocol. Yet where on the web page are proposed changes published on the web site?

Listen Bob, most of us have known the above charter was not being complied with for some time, so it is not my purpose to crucify it. My purpose is to show you the over the air spec is incomplete, and in any case, should not be left uncompleted just because a polished draft has not been submitted on the INET protocol. It really is two different issues, and in any case, the over the air spec needs to be brought into compliance with the charter, if the

WG wants to claim it still exists.

With the above in mind, how about commenting on my suggesting of moving the WG efforts over to Source Forge. In case you lost it in the firefight, here is the URL again:

<http://www.sourceforge.org>

I suggest to everyone they think less about being right, and more about fixing a process that has gone morbid. This could mean fixing the existing group, or restructuring it in some way. The end result is what matters, not how we get there.

Sincerely,

Jeff

>
> de WB4APR, Bob
>
> ---
> You are currently subscribed to aprsspec as: jeff@aerodata.net
> To unsubscribe send a blank email to leave-aprsspec-22299N@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 18:08:07 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA29447
for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 18:08:02 -0500 (CDT)
Message-ID: <LYR11589-28193-2001.08.05-18.30.07--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 05 Aug 2001 19:09:45 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [Steve Dimse] Solutions, APRS DCC forum, was re: Satgate
References: <200108052250.PAA03994@snipe.mail.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DD239.C326A4A4@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse wrote:

>
> On 8/5/01 6:00 PM Jeff King (jeff@aerodata.net) wrote:
>
> >You claim not to be making personal attacks,
>
> Wrong, I never claimed not be making personal attacks, only that you made
> the first one.

Don't recall drawing first blood, but fair enough. Maybe we should both pull back a little. Any thoughts on ways to fix the WG? You certainly expressed alot of derogatory opinions about the WG in personal e-mail to me. Or if you have no constructive thoughts of your own, how about tearing some holes in the possibly solutions I suggested to move forward?

> I consider you nothing but a drag on APRS, and I will do my best to make
> sure everyone sees that!

Hey, I got a great idea. I notice you have gotten more time in the DCC APRS forum on Friday, maybe in your role as the moderator of that forum, you could have a session highlighting all evil things I have done to Steve Dimse and others to drag down APRS. Another world class thought, Steve!

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 18:08:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA29469
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 18:08:23 -0500 (CDT)

Message-ID: <LYR11589-28194-2001.08.05-18.30.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 19:09:51 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Enough...
References: <LYR22299-28185-2001.08.05-17.38.38--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DD23F.D8D4A295@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Brad Trogon wrote:

>

> Enough is enough. This is not progress or is it an informative SIG any
> longer. Some one EMail me when the SIG gets back to business usual and I
> will again subscribe.

What is the "business as usual" if this SIG? Talking about protocol issues
that will go into a blackhole?

FYI, a process was put in place, and this SIG was
created to assist in that process. If the process is broken, it seems in
IMHO, it either needs to be stated it is broken, or repaired.

I'm serious, what does everyone think the purpose of this SIG is?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 18:58:22 2001

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id SAA04725
for <lyris.aprsspec@tapir.org>; Sun, 5 Aug 2001 18:58:21 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapir.org
Message-ID: <LYR11589-28208-2001.08.05-19.20.23--
lyris.aprsspec#tapir.org@lists.tapir.org>
Date: Sun, 05 Aug 2001 18:58:54 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: Da House
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: Enough...
References: <LYR22299-28185-2001.08.05-17.38.38--jeff#aerodata.net@lists.tapir.org>
<LYR22347-28194-2001.08.05-18.30.22--gerry#cs.tamu.edu@lists.tapir.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <3B6DDDBE.719B7FAE@cs.tamu.edu>
Precedence: bulk

Non-rancorous discussion of technical merits leading to
consensus-building related to the particular issues at hand.

And that's been hard this time.

Good questions have been raised by virtually every significantly active
party to this recent thread, but the noise level has also been
significant, and very distracting.

gerry

--

Jeff King wrote:

>

> Brad Trogon wrote:

> >

> > Enough is enough. This is not progress or is it an informative SIG any
> > longer. Some one EMail me when the SIG gets back to business usual and I
> > will again subscribe.

>

> What is the "business as usual" if this SIG? Talking about protocol issues
> that will go into a blackhole?

>
> FYI, a process was put in place, and this SIG was
> created to assist in that process. If the process is broken, it seems in
> IMHO, it either needs to be stated it is broken, or repaired.
>
> I'm serious, what does everyone think the purpose of this SIG is?

--

Gerry Creager -- gerry@cs.tamu.edu
Network Engineering
Academy for Advanced Telecommunications and Learning Technologies

Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 19:16:56 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA06056
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 19:16:49 -0500 (CDT)
Message-ID: <LYR11589-28218-2001.08.05-19.38.51--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 20:18:33 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Enough...
References: <LYR22299-28185-2001.08.05-17.38.38--jeff#aerodata.net@lists.tapr.org>
<LYR22347-28194-2001.08.05-18.30.22--gerry#cs.tamu.edu@lists.tapr.org>
<3B6DDDBE.719B7FAE@cs.tamu.edu>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DE259.7540F3E6@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Gerry Creager N5JXS wrote:

>

> Non-rancorous discussion of technical merits leading to
> consensus-building related to the particular issues at hand.

>

> And that's been hard this time.

Understood, but don't you agree there has to be a formal process in place,
and if there is a formal process in place, it be followed? At best, the
process is fuzzy and even those on the inside cannot agree with each other.

> Good questions have been raised by virtually every significantly active
> party to this recent thread, but the noise level has also been
> significant, and very distracting.

Understood, and I've tried to change the thread topics in my responses, as
you earlier noticed, to try and minimize the distraction, which in any
case is intense as you noted.

This really is a case of the emperor has no clothes, and in the popular fable,
the one (or in this case, multiple parties) that noticed the emperor had no
clothes
where not well received. One would rather believe something is, that really isn't
because
of the fear of public condemnation.

I would suggest to you and others involved, that you focus your technical
discussions
on the task at hand, and put blinders on the other conversations. I would however
suggest you insist the the topics be changed so they can be filtered out.

I've not yet seen you state that the ethics/WG issue at hand is out of line, just
a distraction.

Fair enough?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 19:42:14 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA08090
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 19:42:07 -0500 (CDT)
Date: Sun, 5 Aug 2001 19:41:44 -0500
Message-Id: <LYR11589-28222-2001.08.05-20.04.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] I'll start work
X-IPAddress: 209.83.83.156
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200108060041.TAA27122@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff (and APRS Spec),

Over the next week I'll flush out a few areas of your outline. I appreciated what you did when you put together the outline and related reading, and I'm willing to work a little towards combining that into one document.

Anyone care to join me?

-James Jefferson KB0THN

>
>
> Gerry Creager N5JXS wrote:
> >
> > Non-rancourous discussion of technical merits leading to
> > consensus-building related to the particular issues at hand.
> >
> > And that's been hard this time.
>
> Understood, but don't you agree there has to be a formal process in place,
> and if there is a formal process in place, it be followed? At best, the
> process is fuzzy and even those on the inside cannot agree with each other.

>
>
> > Good questions have been raised by virtually every significantly
active
> > party to this recent thread, but the noise level has also been
> > significant, and very distracting.
>
> Understood, and I've tried to change the thread topics in my
responses, as
> you earlier noticed, to try and minimize the distraction, which in any
> case is intense as you noted.
>
> This really is a case of the emperor has no clothes, and in the
popular fable,
> the one (or in this case, multiple parties) that noticed the emperor
had no clothes
> where not well received. One would rather believe something is, that
really isn't because
> of the fear of public condemnation.
>
> I would suggest to you and others involved, that you focus your
technical discussions
> on the task at hand, and put blinders on the other conversations. I
would however
> suggest you insist the the topics be changed so they can be filtered
out.
>
> I've not yet seen you state that the ethics/WG issue at hand is out of
line, just
> a distraction.
>
> Fair enough?
>
> -Jeff
>
> ---
> You are currently subscribed to aprsspec as: jjeffers@deskmedia.com
> To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator:
wallou@tapr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 19:44:14 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA08173
for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 19:44:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 20:42:42 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SGate/IGate Re-focus :o)
In-Reply-To: <3B6DD006.A4B3EF8@aerodata.net>
Message-ID: <LYR11589-28223-2001.08.05-20.05.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GS0.4.05L.10108052004160.14978-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Sun, 5 Aug 2001, Jeff King wrote:

> Maybe, yet you don't disagree the process is broken?

Nope. As soon as someone prepares a draft IGATE SPEC for the current system on which we can all review, comment, propose corrections, there is nothing that is broken. Until we have something to work on, then we have nothing to "process". Have you ever tried to PKUNZIP and empty file? PKUNZIP responds with a very well worded. "nothing to do"...

> others have carefully avoided the WG charter compliance issues that Ev
> and Allen pointed out.

The only thing I saw pointed out was that I failed to follow the process for proposing changes to the SPEC. BUT THAT STATEMENT HAS SINCE BEEN RETRACTED, SINCE THE ORIGINATOR OF THAT ISSUE NOW HAS PUBLICALLY STATED THAT HE WAS REACTING TO YOUR MISSINFORMATION AND NOT TO MY ORIGINAL POST. ***I NEVER PROPOSED ANY CHANGES TO THE SPEC*** LET ME SAY IT AGAIN:

QUOTE: I MADE NO PROPOSAL TO CHANGE, MODIFY, OR ADD TO THE APRS SPEC nor the IGATE SPEC. I ONLY ASKED FOR SOME CONSIDERATION OF OTHERS TO HOW WE CAN INJECT PCSAT DOWNLINKS INTO THE ***** EXISTING***** APRS INTERNET SYSTEM SO THAT WE COULD SEE (1) WHAT SATGATE INJECTED THEM, and (2) WHAT SATELLITE CHANNEL THEY WERE HEARD ON.

Now, either contribute to that discussion or stop wasting my time.

> I've seen no substantive proof that the WG even exists and that the
> charter is being complied with. Others pointed questions to this by
> others have also been ignored.

SO what proof would you like. How's this for an in-process report from a member of the APRS-WG and you can quote me:

QUOTE:

The APRSWG has openly solicited ad-nauseum for someone with the time, knowledge, interest and stamina to put down on paper how the existing APRS-Internet system works. The members of the APRS-SPEC mailing list group, consisting of many earnest and energetic volunteers have thus far produced nothing. I hold no one at fault and am not complaining. Everyone is busy. WHEN someone has the time and patience, it will get done. Until then, griping about others lack of time to contribute accomplishes nothing.

The APRS-WG has reviewed the deliberated over the 1032 Emails exchanged by said volunteers and has found nothing of any value regarding the documentation of the APRS-INTERNET specification on which to begin the formal APRS-WG review process. UNQUOTE. Bob Bruninga.

> Bob said: "I say again, until we document what we have, I am (as you
> > say) opposed to getting all wrapped around the axle with changes to
> > something we cannot see."

> Has a vote been taken on this?

No vote needed. READ IT AGAIN. THAT IS MY OPINION. Note particularly the words "I am". I don't know why I need to ask for a vote to express my personal opinion.

> With the above in mind, how about commenting on my suggesting of moving
> the WG efforts over to Source Forge. In case you lost it in the
> firefight, here is the URL again: <http://www.sourceforge.org>

I think that is a GREAT IDEA! This APRSSPEC sig is for substantive discussion of APRS specification technical details, not forever harranging everyone on what a few vociferous individuals think everyone else should

be doing with their time. Please go.

When you have put together a draft IGATE SPEC for formal review and comment, please bring it back and we will be happy to discuss the technical details and process it via the APRS-WG process...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 19:47:23 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA08377
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 19:47:21 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 20:46:57 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Enough...
In-Reply-To: <LYR11586-28194-2001.08.05-18.30.22--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-28225-2001.08.05-20.09.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108052043180.14978-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 5 Aug 2001, Jeff King wrote:

> I'm serious, what does everyone think the purpose of this SIG is?

That's easy:

To discuss technical details of the APRS specification and (currently my

focus is) to hopefully document the APRS-INTERNET system. What it is NOT FOR is constant bitching and moaning by a few on how they want someone else to do all the work...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 19:55:48 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA09228
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 19:55:42 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 Aug 2001 20:55:01 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work
In-Reply-To: <LYR11586-28222-2001.08.05-20.04.06--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-28226-2001.08.05-20.17.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108052051480.14978-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 5 Aug 2001, James Jefferson wrote:

> Over the next week I'll flush out a few areas of your outline. I
> appreciated what you did when you put together the outline and related
> reading, and I'm willing to work a little towards combining that into
> one document.

Great! I would certainly contribute, but as you konw, I am focused on maintaining APRSdos and so I have had no tools with which to integrate the

Internet process into APRSdos. THus, I have little to contribute, or I would have done it already. SO I welcome your offer! I for one sure would like to see how it works on paper....

Go for it!

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 20:19:47 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA11254
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 20:19:40 -0500 (CDT)
Message-ID: <LYR11589-28231-2001.08.05-20.41.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 21:21:21 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS-WG, sourceforge?
References: <LYR22299-28223-2001.08.05-20.05.19--jeff#aerodata.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6DF111.F631659B@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>

> On Sun, 5 Aug 2001, Jeff King wrote:

>

> > Maybe, yet you don't disagree the process is broken?
>
> Nope. As soon as someone prepares a draft IGATE SPEC for the current
> system on which we can all review, comment, propose corrections, there is
> noting that is broken.

I don't know why you keep confusing what I am saying with the IGATE spec,
so I changed the topic thread.

I was talking about the APRS-WG, not the yet to be drafted internet spec.
Two different and distinct issues.

Please, go back and read what I said keeping that in light. I don't see
a point in replying to the majority of your post with you having this
misunderstanding.

Again, I was talking about the APRS-WG.

> > With the above in mind, how about commenting on my suggesting of moving
> > the WG efforts over to Source Forge. In case you lost it in the
> > firefight, here is the URL again: <http://www.sourceforge.org>
>
> I think that is a GREAT IDEA! This APRSSPEC sig is for substantive
> discussion of APRS specification technical details, not forever harranging
> everyone on what a few vociferous individuals think everyone else should
> be doing with their time. Please go.

OK, now be clear in what I said and what you are responding to. I said,
how about moving the *APRS-WG* efforts over to a source forge. We would
take the existing copyright APRS-SPEC document, and break it into pieces
on sourceforge. Then interested parties could post additions to the
protocol. There would no longer be a "WG member" as there is now, and
that title would have no significance.

> When you have put together a draft IGATE SPEC for formal review

Again, two different issues. I was referring to the APRS-WG, and have
been throughout this discussion. It is you and Steve who keep bringing
this red herring up, not that I don't think it it needed, or won't
help myself.

> comment, please bring it back and we will be happy to discuss the
> technical details and process it via the APRS-WG process...

Bob, it is not clear to me there is a APRS-WG process, or at least the
published process is not being complied with as I pointed out in detail,
which you have not responded to.

None-the-less, we need to walk before we run. Many of us want a open process for protocol development. Possibly the INET protocol might be a good experiment to start with before we try to repair/redo the APRS-WG. But you have to understand it is a participatory process.

I see someone else has now stepped forward, lets see what we can do here.

Regards,

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 20:28:05 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA11991
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 20:28:03 -0500 (CDT)
Message-ID: <LYR11589-28234-2001.08.05-20.50.05--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 05 Aug 2001 21:29:47 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
References: <200108060041.TAA27122@dm.deskmedia.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6DF30B.7D30B073@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi James:

I changed the title of your post as too many people are confusing the the over the air spec with the INET spec.

James Jefferson wrote:

>

> Jeff (and APRS Spec),

>

> Over the next week I'll flush out a few areas of your outline. I
> appreciated what you did when you put together the outline and related
> reading, and I'm willing to work a little towards combining that into
> one document.

Thanks James. Bill Diaz went over it with me on the phone, he basically suggested removing all the "future idea" comments.

Now, what did you think of my source forge idea of hosting it? If your not against it, I'll start researching this a little more to see if it makes sense and how to set up a APRSINETSPEC project on it, if no-one disagrees.

I placed everything I found on the INET spec on the TAPR site. You can find it at: <ftp://ftp.tapr.org//aprssig/aprsspec/aprstcp>

Thanks James

Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 22:12:41 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA19310

for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 22:12:40 -0500 (CDT)

Message-Id: <LYR11589-28247-2001.08.05-22.34.39--

lyris.aprsspec@tapr.org>

Subject: [aprsspec] Re: [Steve Dimse] Solutions, APRS DCC forum, was re: Satgate

Date: Sun, 5 Aug 2001 23:12:23 -0400

x-sender: sdimse@earthlink.net

From: Steve Dimse <k4hg@tapr.org>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200108060312.UAA03690@harrier.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/5/01 7:09 PM Jeff King (jeff@aerodata.net) wrote:

>
>
>Steve Dimse wrote:
>>
>> On 8/5/01 6:00 PM Jeff King (jeff@aerodata.net) wrote:
>>
>> >You claim not to be making personal attacks,
>>
>> Wrong, I never claimed not be making personal attacks, only that you made
>> the first one.
>
>Don't recall drawing first blood, but fair enough.

You did.

>Maybe we should both pull
>back a little.

And yet you take my private email to you and broadcast it to the entire
SIG. This shows exactly what you are all about, Jeff. You have no desire
to accomplish anything other than creating havoc.

>> I consider you nothing but a drag on APRS, and I will do my best to make
>> sure everyone sees that!
>
>Hey, I got a great idea. I notice you have gotten more time in the DCC APRS
>forum on Friday, maybe in your role as the moderator of that forum, you
>could have a session highlighting all evil things I have done to Steve
>Dimse and
>others to drag down APRS. Another world class thought, Steve!
>
No, Jeff, that forum I devote to highlighting the accomplishments of
those who contribute positively to APRS. If you ever enter that category,
I'd love to give you time, but I'll bet you never get there.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Aug 5 22:43:23 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA21069
for <lyris.aprsspec@tappr.org>; Sun, 5 Aug 2001 22:43:20 -0500 (CDT)
Message-ID: <LYR11589-28251-2001.08.05-23.05.22--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 05 Aug 2001 23:44:46 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [Steve Dimse] Solutions, APRS DCC forum, was re: Satgate
References: <200108060312.UAA03690@harrier.mail.pas.earthlink.net>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6E12AE.10604BBC@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Dimse k4hg@tappr.org wrote:

>
> On 8/5/01 7:09 PM Jeff King (jeff@aerodata.net) wrote:

> >Steve Dimse wrote:
> >>
> >> On 8/5/01 6:00 PM Jeff King (jeff@aerodata.net) wrote:
> >>
> >> >You claim not to be making personal attacks,
> >>
> >> Wrong, I never claimed not be making personal attacks, only that you made
> >> the first one.
> >
> >Don't recall drawing first blood, but fair enough.
>
> You did.

OK, if you say I did then sorry. It certainly is a debatable point. Someone has

got to stop however.

> >Maybe we should both pull
> >back a little.

> And yet you take my private email to you and broadcast it to the entire
> SIG. This shows exactly what you are all about, Jeff. You have no desire
> to accomplish anything other than creating havoc.

I want to talk about that. It was a mistake.... if you look at the post log, you'll see a bunch of e-mails went out at about the same time.... in the case of your e-mail, I thought I had hit reply when I should have hit reply all. I changed it manually to reflect where I thought it should be going. You also didn't say offlist or any mention in your e-mail and the title was the same as on the SIG.

That much being said, that it was a mistake, I am not going to offer a apology to you. While you say my mistake shows what I am about, your personal feelings show what you are all about. That is, using your position and influence in the APRS/TAPR community to wage your personal vendettas. Some may give you a pass because of all your contributions, but I won't. Not acceptable behavior from a leader in the APRS community nor the moderator of a ARRL sponsored conference. I won't buy the Clinton defense.

> >> I consider you nothing but a drag on APRS, and I will do my best to make
> >> sure everyone sees that!

> >Hey, I got a great idea. I notice you have gotten more time in the DCC APRS
> >forum on Friday, maybe in your role as the moderator of that forum, you
> >could have a session highlighting all evil things I have done to Steve
> >Dimse and
> >others to drag down APRS. Another world class thought, Steve!

> No, Jeff, that forum I devote to highlighting the accomplishments of
> those who contribute positively to APRS. If you ever enter that category,
> I'd love to give you time, but I'll bet you never get there.

And this from the moderator of the ARRL/DCC APRS forum and a seated TAPR BOD member. You are a disgrace. When I suggested to John Ackerman, TAPR president, that some of the members of the TAPR BOD needed training in the running and nurturing of a volunteer organization, rest assured you were the poster child I was thinking of.

But don't let it worry you Steve, no matter how hard you try, I am not going to go away. And I'm sure you'll continue to see just what you want to see in a way that most benefits your agenda of the moment. I just hope your behavior is not

driving to many other people away.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 23:05:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA22796
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 23:05:27 -0500 (CDT)
Date: Sun, 5 Aug 2001 23:05:20 -0500
Message-Id: <LYR11589-28252-2001.08.05-23.27.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
X-IPAddress: 209.83.83.156
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200108060405.XAA06709@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jeff King wrote:

> Bill Diaz went over it with me on the phone, he basically
> suggested removing all the "future idea" comments.

Okay, good plan. Let's be sure to keep a list of "future ideas".

> Now, what did you think of my source forge idea of hosting it?

I just looked at SourceForge a little. They have an impressive setup; especially CVS and bugtraq. To qualify for a Sourceforge account the spec needs to be licensed under one of their OSI approved licenses, or recieve SourceForge's approval. After briefly looking through licenses, I think the ARTISTIC or MIT licenses are the best. Other ideas?

I also run a Linux box on a very fast connection (the dual 100 megabit

ethernet cards are the limiting factor on bandwidth. See
<http://www.jarviscomputer.com/jcs/server.php>) which we can use, as
needed.

On another logistics note: what do people recommend for document
formats? I'm most familiar with HTML, but it might not be the best
markup language to use. Is Framemaker still freely available for Linux?

-Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 23:19:25 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA23996
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 23:19:20 -0500 (CDT)
Message-Id: <LYR11589-28254-2001.08.05-23.41.24--
lyris.aprsspec@tapr.org>
Subject: [aprsspec] Re: [Steve Dimse] Solutions, APRS DCC forum, was re: Satgate
Date: Mon, 6 Aug 2001 00:19:07 -0400
x-sender: sdimse@earthlink.net
From: Steve Dimse <k4hg@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200108060419.VAA12248@scaup.mail.pas.earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/5/01 11:44 PM Jeff King (jeff@aerodata.net) wrote:

>> >Maybe we should both pull
>> >back a little.
>
>> And yet you take my private email to you and broadcast it to the entire
>> SIG. This shows exactly what you are all about, Jeff. You have no desire
>> to accomplish anything other than creating havoc.
>
>

>I want to talk about that. It was a mistake.... if you look at the post log,
>you'll see a bunch of e-mails went out at about the same time.... in the case
>of your e-mail, I thought I had hit reply when I should have hit reply all.

No Jeff, it was a lot more than that. My message was addressed only to you, aprsspec was not in the message header. Reply, or reply all, would have been only me. You had to specifically add aprsspec, and you did so. It was a deliberate, premeditated act. You are finally right about one thing though, it was a mistake. Your lame excuse just magnifies your error. And you say I act like Clinton!

>> No, Jeff, that forum I devote to highlighting the accomplishments of
>> those who contribute positively to APRS. If you ever enter that category,
>> I'd love to give you time, but I'll bet you never get there.

>

>And this from the moderator of the ARRL/DCC APRS forum and a seated TAPR
>BOD member. You are a disgrace. When I suggested to John Ackerman, TAPR
>president,
>that some of the members of the TAPR BOD needed training in the running
>and nurturing
>of a volunteer organization, rest assured you were the poster child I
>was thinking of.

>

And yet John, who is a paragon of patience, someone whom I admire greatly for his people skills, sent you a reply you don't mention. What exactly did he tell you, Jeff? At some point you ought to wonder why so many highly regarded members of the APRS community are telling you they have better things to do than deal with you!

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 5 23:57:47 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA24876
for <lyris.aprsspec@tapr.org>; Sun, 5 Aug 2001 23:57:47 -0500 (CDT)
Message-ID: <LYR11589-28267-2001.08.06-00.19.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 06 Aug 2001 00:59:29 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [Steve Dimse] Solutions, APRS DCC forum, was re: Satgate
References: <LYR22299-28254-2001.08.05-23.41.24--jeff#aerodata.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3B6E2431.1D4590D@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Steve Dimse wrote:

>

> On 8/5/01 11:44 PM Jeff King (jeff@aerodata.net) wrote:

> >I want to talk about that. It was a mistake.... if you look at the post log,
> >you'll see a bunch of e-mails went out at about the same time.... in the case
> >of your e-mail, I thought I had hit reply when I should have hit reply all.

> No Jeff, it was a lot more than that. My message was addressed only to
> you, aprsspec was not in the message header.

Here is the message header/title in question:

Subject: Re: [aprsspec] Re: [Steve Dimse -aprsspec] Re: SATGATE Specification
(Draft)
Date: Sun, 5 Aug 2001 18:50:52 -0400
From: Steve Dimse <k4hg@tappr.org>
To: "Jeff King" <jeff@aerodata.net>

Sure looks like [aprsspec] is in the header/title to me and you have been CC'ing
both to the list and me direct. Like I said, a mistake.

> Reply, or reply all, would have been only me.

Your correct. That is why I said I thought I had hit reply by mistake, and
not reply all as I intended. I then manually edited it to correct what I thought
was my oversight. Read what I said instead of what you think I said.
It is all there and it is plausible. I really don't care if you believe me
anyways.

> You had to specifically add aprsspec, and you did so.

Yeap, that is what I said I did. Might want to read what I post for once.

> It was a deliberate, premeditated act. You are finally right about one
> thing though, it was a mistake. Your lame excuse just magnifies your
> error. And you say I act like Clinton!

You misunderstand. I said it was a mistake. I didn't offer a excuse or
applogy. Frankly, I can't say with confidence I wouldn't have done exactly
the same thing even if I had been aware it was private. Your actions behind
the scene are a disgrace to the positions you hold, and what you sent me
threatening to do your best to slander/libel me to the APRS community would
have been the last straw in any case.

> >> No, Jeff, that forum I devote to highlighting the accomplishments of
> >> those who contribute positively to APRS. If you ever enter that category,
> >> I'd love to give you time, but I'll bet you never get there.

> >And this from the moderator of the ARRL/DCC APRS forum and a seated TAPR
> >BOD member. You are a disgrace. When I suggested to John Ackerman, TAPR
> >president,
> >that some of the members of the TAPR BOD needed training in the running
> >and nurturing
> >of a volunteer organization, rest assured you were the poster child I
> >was thinking of.

> And yet John, who is a paragon of patience, someone whom I admire greatly
> for his people skills, sent you a reply you don't mention.

Oh REALLY?!? And how would you know that John sent me a reply to that message? He
in fact did, but looking at it, I don't see anyone on the CC list. It was a
private message just to me. Are you suggesting here on this SIG that the
president of TAPR is sharing private e-mail?

> What exactly did he tell you, Jeff?

Interesting and quite ironic.

So, your upset that by mistake I reposted your private e-mail to the list,
and now you are asking me to share a private e-mail from John, that by
all appearences was only sent to me, to a public list here? That does seem
kinda ironic, doesn't it Steve?

Tell you what, since appearently it was shared with you, why don't you repost
it here to the list.... I give you my permission to do so. I'm certainly not
ashamed of it, and by the reaction, or lack there of, it most certainly is
not flattering to the organization I directed it at. In fact, I beg you to

post it on the list. If some of the things that you are imply are happening, they really need to be brought out. While you are at it, copy the TAPR-ORG list as well. Lets make a big party out of it.

> At some point you ought to wonder why so many
> highly regarded members of the APRS community are telling you they have
> better things to do than deal with you!

Actually, the letter you speak of had little to do with APRS. Are you sure you got BCC'ed the right one? In any case, feel free to share your thoughts on why you think the above is so. You seem to be enjoying it and I don't want to take away from that.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 00:25:55 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA02835
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 00:25:50 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-28269-2001.08.06-00.47.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 06 Aug 2001 00:26:23 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: Da House
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
References: <LYR22347-28252-2001.08.05-23.27.31--gerry#cs.tamu.edu@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6E2A7F.38771EAA@cs.tamu.edu>
Precedence: bulk

James Jefferson wrote:

>

> Jeff King wrote:

> > Bill Diaz went over it with me on the phone, he basically

> > suggested removing all the "future idea" comments.

>

> Okay, good plan. Let's be sure to keep a list of "future ideas".

" To do list" on Source Forge...

> > Now, what did you think of my source forge idea of hosting it?

>

> I just looked at SourceForge a little. They have an impressive setup;

> especially CVS and bugtraq. To qualify for a Sourceforge account the

> spec needs to be licensed under one of their OSI approved licenses, or

> receive SourceForge's approval. After briefly looking through licenses,

> I think the ARTISTIC or MIT licenses are the best. Other ideas?

I really see no reason why we cannot use the documentation form of GPL
(my mind is blank on the label right now). Otherwise I see no problem
with, in order, MIT or ARTISTIC, either.

> I also run a Linux box on a very fast connection (the dual 100 megabit

> ethernet cards are the limiting factor on bandwidth. See

> <http://www.jarviscomputer.com/jcs/server.php>) which we can use, as

> needed.

>

> On another logistics note: what do people recommend for document

> formats? I'm most familiar with HTML, but it might not be the best

> markup language to use. Is Framemaker still freely available for Linux?

I'd rather do StarOffice or XML. I could be convinced to do Word as a
concession to the non-linux-heads out there.

gerry

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 12:50:10 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA28309

for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 12:50:04 -0500 (CDT)

Date: Mon, 6 Aug 2001 10:49:47 -0700 (PDT)

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
In-Reply-To: <LYR12892-28269-2001.08.06-00.47.48--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-28373-2001.08.06-13.12.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10108061017180.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Aug 2001, Gerry Creager N5JXS wrote:

> I'd rather do StarOffice or XML. I could be convinced to do Word as a
> concession to the non-linux-heads out there.

Not me! There's a lot more out there than just MS Windows and Linux.
Please try to choose something that is fairly universally supported
across many operating systems. I prefer HTML or PDF. There are
tools that can output a variety of formats. I use/like StarOffice
but there may be better choices. The more output formats the better,
so that more people can use the resultant specs.

I think SourceForge is a wonderful idea, both for the soon-to-be-
worked-on internet spec and for the ratified-but-needs-a-bit-of-
tweaking APRS spec.

I suspect many people on the list don't have a clear idea how
open-source development really works. While Xastir doesn't use
SourceForge, it does use many of the same tools, and the 1%
contributors really can make a difference with this system. I
started out as one of the 1% (or less) Xastir guys. I'm probably
only at 10 or 15% now, but making a big difference in Xastir.
Perhaps four or five people have direct access to the source code.
MANY others suggest changes and submit patches for one of the
developers to incorporate. It really works well. Before, when we
didn't have Xastir sources in CVS, development was quite slow.
SourceForge integrates all of the tools needed for open-source
development and lets people use them for free.

I see a lot of frustration from all parties on this list that more

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.05L.10108061430520.5202-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Aug 2001, Curt Mills, WE7U wrote about the tool for the APRSINET spec development:

> I suspect many people on the list don't have a clear idea how
> open-source development really works. While Xastir doesn't use
> SourceForge, it _does_ use many of the same tools, and the 1%
> contributors really can make a difference with this system....
> Perhaps four or five people have direct access to the source code.
> MANY others suggest changes and submit patches for one of the
> developers to incorporate. It really works well. Before, when we
> didn't have Xastir sources in CVS, development was quite slow.
> SourceForge integrates all of the tools needed for open-source
> development and lets people use them for free.

I am not familiar with these tools, but what I see above sounds more like code development than spec development (I could be totally wrong). I thought the focus was on a spec, not more tweaks to linux code? Can someone clarify? Thanks
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 14:00:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA05409
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 14:00:42 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-28391-2001.08.06-14.22.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 06 Aug 2001 15:00:26 -0400
From: Stephen Schwarm <sschwarm@emc.com>
Organization: EMC
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)

References: <LYR16676-28373-2001.08.06-13.12.01--w3eve#arrrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3B6EE94A.312B1044@emc.com>
Precedence: bulk

Can I recommend we use LaTeX. Use it to produce pdf for publication. LaTeX is great for producing large documents that go through several changes. It works well to systems like CVS to maintain histories. It runs on most everything except MSDos. It is very easy to learn and I'd be glad to get us started. Distribution of the output as pdf allows for easy check that it is the correct version using checksums but we all don't have to have the tools to process pdf directly.

I currently do not do much with the internet APRS. I use mostly the RF form but I'd like to see a standard done.

Steve, W3EVE

"Curt Mills, WE7U" wrote:

>
> On Mon, 6 Aug 2001, Gerry Creager N5JXS wrote:
>
> > I'd rather do StarOffice or XML. I could be convinced to do Word as a
> > concession to the non-linux-heads out there.
>
> Not me! There's a lot more out there than just MS Windows and Linux.
> Please try to choose something that is fairly universally supported
> across many operating systems. I prefer HTML or PDF. There are

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 14:20:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA07275
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 14:20:41 -0500 (CDT)
Message-ID: <LYR11589-28401-2001.08.06-14.42.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 6 Aug 2001 12:20:21 -0700 (PDT)

From: Bill Vodall <wa7nwp@yahoo.com>
Reply-To: wa7nwp@yahoo.com
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
In-Reply-To: <LYR19173-28373-2001.08.06-13.12.01--wa7nwp@yahoo.com@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <20010806192021.13198.qmail@web3603.mail.yahoo.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

--- "Curt Mills, WE7U" <hacker@tc.fluke.com> wrote:
> In the meantime, let's get this stuff
> onto SourceForge with an open-source license and get to work
> (BOTH specs).

Yes, but be sure to keep a non-SourceForge backup of the work
being done. Free services have been known to disappear...

Bill, WA7NWP

Do You Yahoo!?
Make international calls for as low as \$.04/minute with Yahoo! Messenger
<http://phonecard.yahoo.com/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Aug 6 14:32:21 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08007
for <lyris.aprsspec@tappr.org>; Mon, 6 Aug 2001 14:32:17 -0500 (CDT)
X-Originating-IP: [208.51.39.70]
Reply-To: jeff@aerodata.net
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Subject: [aprsspec] Re: I'll start work (APRSINET spec)
Date: Mon, 06 Aug 2001 19:31:51 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-28406-2001.08.06-14.54.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-OriginalArrivalTime: 06 Aug 2001 19:31:51.0742 (UTC)
FILETIME=[7151E5E0:01C11EAE]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F208NkY5TetpIuPHDXE0000f726@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga <bruninga@usna.edu> wrote:

>I am not familiar with these tools, but what I see above sounds more like
>code development than spec development (I could be totally wrong). I
>thought the focus was on a spec, not more tweaks to linux code? Can
>someone clarify?

Source forge is OS independent, and can also used for documentation development. If you think about it, most source code is ascii text anyways, so ultimately not much different, at least in the initial stages, which is exactly where we are at now.

Source Forge also supports other tools as well, including mailing lists. One does not have to be familiar with all the tools to participate in some fashion.

And on a more general note...

I think it is important to keep KISS in mind here... and also make sure that any effort is OS neutral. We need to keep in mind that the less barriers to entry that are created, the more that can participate. Tools need to be available for the main platforms. From what I have heard so far in this thread, I don't think this is an issue, but I wanted to say that anyways.

73

Jeff

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 15:56:06 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA16430
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 15:56:04 -0500 (CDT)
Date: Mon, 06 Aug 2001 16:55:19 EDT
From: K3for@aol.com
Subject: [aprsspec] Re: SATGATE Specification
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <k3for@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit
Message-ID: <LYR11589-28425-2001.08.06-16.18.10--
lyris.aprsspec@tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <51.f4a4728.28a05e37@aol.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In all the hoo-haa where I think we finally got Jim to volunteer to start gathering some APRSInet spec info together (BTW, Jim, I'd rather see it posted for info/comments in plain-text or HTML rather than a SourceForge solution, and I'll host it, if you want), I lost track of what we want.

Bob, you're saying that if I'm a satIgate, you want me to pass all received packets to APRServe as something like (e.g. PCSAT 1200baud down):
WB4APR>APR8TK,PCSAT,K3FOR-1,TCPIP:=3909. N/07636. W'000/000/BOB HOME STATION

and my -1 should indicate that receive mode? My intended implementation is to use your APRStk to steer my beam and QSY my D7, and take the rx off the serial data from the TNC and feed it in parallel into standard Igate software (Win, SA). This would seem to accomplish everything except your SSID rx-mode substitution. APRServe would see the packet and where it came from, but not *how* it came down from the satellite. APRStk would know that, but it doesn't have a way of talking to the Igate box.

.. but, the *sender* could put it in his text, unless he's an automated APRStk station, too - in which case we know that from his TOCALL, and we know what mode APRStk uses for each bird.

73,
Skip/K3FOR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 16:01:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA16627
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 16:01:33 -0500 (CDT)
Date: Mon, 6 Aug 2001 12:16:11 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
In-Reply-To: <Pine.GS0.4.05L.10108061430520.5202-1000000@arctic>
Message-ID: <LYR11589-28427-2001.08.06-16.23.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10108061203530.15040-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Aug 2001, Bob Bruninga wrote:

> I am not familiar with these tools, but what I see above sounds more like
> code development than spec development (I could be totally wrong). I
> thought the focus was on a spec, not more tweaks to linux code? Can
> someone clarify? Thanks

The two processes are very similar. With Linux/Solaris/*BSD code, you're updating ASCII text via CVS. Anyone can check out the very

latest code via anonymous CVS seconds after it has been changed.

With a spec, assuming you're not checking in binary stuff, it works the same. Some advantages are:

- 1) Only the differences between versions are saved, keeping the repository size small.
- 2) Many people can use and/or update the text at any time.
- 3) Versions can be tagged with a release tag, and the entire set of files corresponding to that tag can be checked out as a unit at any time in the future.
- 4) Old versions of the file can be compared against new at any time.
- 5) Other "branches" can be created, such as a development branch and a release branch. Any branch may later be merged back to the main branch.
- 6) Access controls are built-in.

There are probably other advantages that might apply that I've forgotten.

There are access controls available for the different operations (read/write) so that only certain individuals can have the correct access. For Xastir we use controlled access for write privileges but completely open read privileges. It's all just ASCII text.

Note: You can use CVS with binary files as well, it just gets unwieldy. It can't save just the changes but has to save the entire file each time in that case. For files that don't change often but are part of the spec (images perhaps), CVS works well.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 17:02:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20891
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 17:02:09 -0500 (CDT)
Message-ID: <LYR11589-28444-2001.08.06-17.23.33--
lyris.aprsspec@tapr.org>

Date: Mon, 06 Aug 2001 16:00:35 -0600
From: KC7ZRU - Tate <kc7zru@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification
References: <LYR19726-28425-2001.08.06-16.18.10--kc7zru#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B6F1383.DB41DE34@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Skip!

Project files stored/tracked with CVS are usually plain-text. SourceForge uses CVS, and also provides a web interface to CVS. Same as the xastir project. (www.xastir.org)

As an example, take a look at <http://cvs.sourceforge.net/cgi-bin/viewcvs.cgi/aprsd/aprsd/> click on the version numbers of each component to view the latest version of that file. This example is for source code destined to be compiled into a binary, but it works just as well for documents like policies, and specs or most any other 'group authored' project. Instead of 'component files' you could have 'chapter files' and even 'sub-chapters'. One nice thing is, stuff can be poked in as needed, no need to perfectly anticipate the exact file structure when setting it up ("Dang, didn't know we'd need a chapter 6.A.ii.f.5.x.045" - no prob)

The parent directory for the aprsd project is: <http://sourceforge.net/projects/aprsd/>

As long as you have a web browser, you can see the work in progress, regardless of OS or platform. With the SourceForge or TAPR mailing list (likely one or the other - not both, for public comments), feed back and comments can be easily made.

Do you have some concerns with using CVS/SourceForge that haven't been addressed?

73

K3for@aol.com wrote:

>

> In all the hoo-haa where I think we finally got Jim to volunteer to start

gathering some APRSInet spec info together (BTW, Jim, I'd rather see it posted for info/comments in plain-text or HTML rather than a SourceForge solution, and I'll host it, if you want), I lost track of what we want.

>

--

```

/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/\/
|      CARC Repeater 146.940      DN62      |
|      http://groups.yahoo.com/group/RM-APRS      |
|      "The Dungeon" at http://go.to/KC7ZRU      |
+-----+

```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 19:18:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA02158
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 19:18:34 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 6 Aug 2001 20:18:12 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: SATGATE Specification
In-Reply-To: <51.f4a4728.28a05e37@aol.com>
Message-ID: <LYR11589-28483-2001.08.06-19.40.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.05L.10108062008440.10142-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Aug 2001 K3for@aol.com wrote:

> Bob, you're saying that if I'm a satIgate, you want me to pass all
> received packets to APRServe as something like (e.g. PCSAT 1200baud
> down):

WB4APR>APR8TK,W3ADO-1*,K3FOR-1*,TCPIP*:=3909. N/07636. W`000/000/BOB etc

> and my -1 should indicate that I received it on 145.825 1200 baud?

Yes, that was my suggestion. The DIGIPEAETER call for HT's on 145.825 will be W3ADO-1*, for Mobiles using 9600 baud the digipath will be W3ADO-2. Steve was concerned about all client software being able to handle the multiple *'s in the paths, but I hope it will work or the client software can be fixed.

> This would seem to accomplish everything except your SSID rx-mode
> substitution. APRServe would see the packet and where it came from, but
> not *how* it came down from the satellite. For now, that is not that
> important. It can be inferred from the DIGI call...

de WB4APR@amsat.org, Bob

ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
PCsat Design	http://www.ew.usna.edu/~bruninga/pcsat.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 6 20:01:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA05404
for <lyris.aprsspec@tapr.org>; Mon, 6 Aug 2001 20:01:41 -0500 (CDT)
Date: Mon, 6 Aug 2001 12:22:38 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: I'll start work (APRSINET spec)
In-Reply-To: <20010806192021.13198.qmail@web3603.mail.yahoo.com>
Message-ID: <LYR11589-28493-2001.08.06-20.23.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10108061221220.15040-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 6 Aug 2001, Bill Vodall wrote:

> Yes, but be sure to keep a non-SourceForge backup of the work
> being done. Free services have been known to disappear...

EVERY good ham is a packrat, so that minimizes the problem, but yes,
you are absolutely right Bill! I'm not sure what facilities
SourceForge has for doing that, but I'll bet there's something
available.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 7 00:01:34 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA25656
for <lyris.aprsspec@tapr.org>; Tue, 7 Aug 2001 00:01:32 -0500 (CDT)
Date: Mon, 6 Aug 2001 14:28:50 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SATGATE Specification
In-Reply-To: <LYR12892-28425-2001.08.06-16.18.10--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-28556-2001.08.07-00.23.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 9 21:50:48 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA25834
for <lyris.aprsspec@tappr.org>; Thu, 9 Aug 2001 21:50:44 -0500 (CDT)
Message-Id: <LYR11589-29166-2001.08.09-22.12.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: jjeffers@deskmedia.com
Date: Thu, 09 Aug 2001 21:51:28 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: James Jefferson <jjeffers@deskmedia.com>
Subject: [aprsspec] APRS Internet Spec
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <4.2.0.58.20010809214201.00ca2cd0@deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I setup a sourceforge project (aprsinet) for the draft APRS internet spec.

Please take a look at <http://aprsinet.sourceforge.net/> and visit the CVS tree with all documents and source code. There isn't much to look at yet, but with enough contributions (no matter how large or small) the spec will happen.

If you wish to contribute large sections the draft spec document I can set you up with CVS write access, otherwise feel free to e-mail me your additions and changes, and I'll merge them in. CVS allows each version of each file to be tracked and diff'ed against earlier and later versions - so the evolution of the documents will be obvious and traceable.

73's,

-Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: waillou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 9 22:48:39 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA29378
for <lyris.aprsspec@tapr.org>; Thu, 9 Aug 2001 22:48:36 -0500 (CDT)
Message-ID: <LYR11589-29188-2001.08.09-23.10.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 09 Aug 2001 21:48:12 -0600
From: KC7ZRU - Tate <737kc7zru373@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en,pdf
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS Internet Spec
References: <LYR19726-29166-2001.08.09-22.12.36--kc7zru#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3B73597C.37FF4591@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thank you James,

Positive vibes, karma, energy, prayers and support of your choice to all
who participate.

A start....

73

James Jefferson wrote:

>

> I setup a sourceforge project (aprsinet) for the draft APRS internet spec.

>

--

Casper, WY		CARC Repeater
DN62tt		146.940

"The Dungeon" online at <http://go.to/kc7zru>
"RTFM" is NOT a 'four letter' word!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 16 11:31:30 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA14251
for <lyris.aprsspec@tappr.org>; Thu, 16 Aug 2001 11:31:27 -0500 (CDT)
Date: Thu, 16 Aug 2001 09:31:04 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Area Object Sizing
Message-ID: <LYR11589-30308-2001.08.16-11.53.54--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.LNX.4.33.0108160917490.5922-1000000@tesla.intra.calle.org>
Precedence: bulk

Hi,

There was a thread on this topic in late June that started with my confusion in trying to decode area objects by reading the spec. After discussion in that thread with Steve Dimse, we concluded that the spec was a bit misleading and came up with the following equation:
$$\text{offset_in_degrees} = (\text{offset_in_packet} / 100)^2$$

Later, I communicated privately with Bob because this equation still seemed to create the wrong size areas. He sent me some example objects, describing their sizes (i.e.: rectangle 20miles by 30miles), for me to compare. I then was sure that the above equation is not correct. Bob then sent me a code snippet and I believe I found the correct equation and a possible explanation of the confusion:
$$\text{offset_in_degrees} = (\text{offset_in_packet}^2) / 1500$$

Using that equation gave me areas with sizes the same as the example objects that Bob had sent me. I believe the confusion may have come from the comment near that section of code that talks about 100ths of a degree squared.

Comments?

--

Olivier Calle

internet: <olivier@calle.org>
work tel: 425-446-5088 home tel: 360-658-2692 To err is human,
callsign: N7TAP, class: General to really foul up
job: Fluke Networks, Sr. Software Engineer requires the root
WWW Page URL: <http://calle.org/olivier/> password...
Psalm 48:14 SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Sep 1 22:59:19 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA26761
for <lyris.aprsspec@tappr.org>; Sat, 1 Sep 2001 22:59:18 -0500 (CDT)
Date: Sat, 1 Sep 2001 22:58:20 -0500
Message-Id: <LYR11589-33765-2001.09.01-23.22.04--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] What are these packets?
X-IPAddress: 209.83.83.111
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200109020358.WAA08792@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Can somebody please help me figure out what these packets are and what produces them. As two people were APRS chatting this evening I saw dozens of packets like this go by:

```
NOAN>APS200,KI0BW-4,KB0JBF-1,WIDE*:}KI0BW-5>APRS,TCPIP,NOAN*:!!  
000000D902ED0406-----00F
```

It appears that an IGATE is attempting to gate the message to RF. Is that right? Is the IGATE misconfigured or is this normal behavior.

-Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Sep 1 23:18:55 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA27787
for <lyris.aprsspec@tappr.org>; Sat, 1 Sep 2001 23:18:53 -0500 (CDT)
Date: Sat, 1 Sep 2001 23:18:26 -0500
Message-Id: <LYR11589-33769-2001.09.01-23.42.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: [aprssig] What are these packets?
X-IPAddress: 209.83.83.111
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200109020418.XAA30676@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Jim,

The weather station part of the packet I understand. What I'm wondering about is the } indicating user defined format, as well as what seems to be a packet encapsulated in the first one. It appears that his packet made it out to the internet (TCPIP is in the second path), then somebody gated it back to RF and didn't strip out the original path.

-Jim

> No, this is a weather station format report from N0AN. He's running an

> Ultimeater 2000 but does not have all of the optional accessories

> connected. Not to worry....

>

> James Jefferson wrote:

> >

> > Can somebody please help me figure out what these packets are and what

> > produces them. As two people were APRS chatting this evening I saw

> > dozens of packets like this go by:

> >

> >

N0AN>APS200,KI0BW-4,KB0JBF-1,WIDE*:}KI0BW-5>APRS,TCPIP,N0AN*:!!

000000D902ED0406-----00F

> >

> > It appears that an IGATE is attempting to gate the message to RF. Is

> > that right? Is the IGATE misconfigured or is this normal behavior.

> >

> > -Jim Jefferson KB0THN

> >

> > ---

> > You are currently subscribed to aprssig as: KU0G@KCAPRS.ORG

> > To unsubscribe send a blank email to
leave-aprssid-1615Q@lists.tapr.org
> > Questions regarding the SIG go to the SIG administrator:
wallou@tapr.org
>
> --
> 73 de Jim, KU0G
> Chairman/Coordinator
> Kansas City APRS Working Group, W0APR
> First Alert Storm Team KMBC-TV9
> Mailto:ku0g@kcaprs.org
> Webpage: http://www.kcaprs.org
>
>

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprssid-11589@lists.tapr.org Fri Sep 7 12:00:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA13324
for <lyris.aprssid@tapr.org>; Fri, 7 Sep 2001 12:00:25 -0500 (CDT)
Date: Fri, 07 Sep 2001 12:50:15 -0400
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprssid@lists.tapr.org>
Subject: [aprssid] DCC: Last chance for registration discount, and updated
program info
Message-ID: <LYR11589-34735-2001.09.07-12.22.02--
lyris.aprssid@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprssid-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprssid@lists.tapr.org>
List-Owner: <mailto:owner-aprssid@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <17339913.999867015@WUSJA129861-8HP>
Sender: bounce-aprssid-11589@lists.tapr.org
Precedence: bulk

The early registration discount for both the hotel room rate, and the

registration fee, expires on September 10, so you only have a couple more days to get your reservations and registration made at the lowest price. Registrations at the normal price will be available and at the door (of course, hotel rooms will be subject to availability).

The DCC begins on Friday, September 20 and runs through Sunday, September 22. Full details are available at <http://www.tapr.org/tapr/html/Fdcccconf.html>.

A couple of updates on the program:

1. We're very happy that Anthony R. Curtis, Ph.D, K3RXK, will be our speaker at the DCC banquet. Tony's presentation will be titled "40 Years of Amateur Radio In Space: Where We've Been, Where We Are, and Where We're Going."

2. We've confirmed that the Packet Radio Users Group (PRUG) of Tokyo, Japan will be sponsoring a reception and talking about their latest activities Friday evening. PRUG is really on the cutting edge of digital radio, and their presentations are always fascinating.

3. We are also fortunate to have three great activities that focus on the hardware and soldering-iron side of amateur radio:

- * On Saturday, Jay Craswell, W0VNE, will do an introductory program on using CirCAD, a powerful schematic drawing/PCB layout program that's available (in a slightly limited form) for ham use at no cost.

- * Also on Saturday, Ten-Tec's Gary Barbour, AC4DL, will be talking about Software Defined Radio development at Ten-Tec.

- * Our "Sunday Seminar" will feature Dave Newkirk, W9VES, providing a tutorial on using the Serenade SV RF design software; this is another professional package with a free version available for ham use.

We hope to see you there!

John N8UR
President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Sep 8 19:25:10 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA06211
for <lyris.aprsspec@tapr.org>; Sat, 8 Sep 2001 19:25:04 -0500 (CDT)
Date: Sat, 08 Sep 2001 20:22:57 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: mvarbb@febo.com, tawg-list@tawg.org
Subject: [aprsspec] Correction to DCC Post
Message-ID: <LYR11589-34974-2001.09.08-19.47.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <83158645.999980577@[192.168.1.235]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In a previous email I incorrectly stated that the Circad schematic drawing and PCB layout program is available for Ham use at no cost. I misunderstood the relationship of the various versions.

There is a highly discounted version of the \$995 Circad program available at \$295. This \$295 version is available to Licensed Ham/Amateur Radio Operators only. Check out <http://dover.5u.com/> for more info on the Ham Discount.

There is a demo version of Circad downloadable at <http://www.holophase.com>; although that version can be used to draw small schematics and PCBs, it's not a replacement for the full program.

I want to apologize to Holophase and to Jay Craswell for improperly describing the versions of Circad, and to you for any confusion this may have caused.

73,
John N8UR

President, TAPR
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Sep 13 16:25:01 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA12510
for <lyris.aprsspec@tapr.org>; Thu, 13 Sep 2001 16:25:00 -0500 (CDT)
Date: Thu, 13 Sep 2001 17:24:05 -0400
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Digital Communications Conference Still On
Message-ID: <LYR11589-35908-2001.09.13-16.48.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <34153349.1000401844@WUSJA129861-8HP>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

With the tragic events of this week, we've had to seriously consider whether it was still appropriate or feasible to hold the Digital Communications Conference next weekend (Sept. 20-22) in Cincinnati. Although we grieve with the whole world for the losses so many have suffered, we believe it's important to show that terrorism will not succeed in making us change our way of life.

So, the DCC will go on. We realize that in light of the circumstances, some folks who have already registered may feel they cannot attend. If that is the case, please contact the TAPR office (tapr@tapr.org) and we will arrange a refund of your registration fee. If you are traveling to the DCC, remember that things may still be somewhat disrupted next week, and increased security precautions will certainly cause some airport delays. Check with your airline early and often to make sure they haven't changed your plans for you.

We realize that this year's DCC may well be smaller, and will certainly be more somber, than in past years. But we think that going ahead is the right thing to do, and we hope that you agree.

73,
John

John Ackermann	N8UR	jra@febo.com	http://www.febo.com
President, TAPR		n8ur@tapr.org	http://www.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 18 18:13:26 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25120
for <lyris.aprsspec@tapr.org>; Tue, 18 Sep 2001 18:13:22 -0500 (CDT)
Date: Tue, 18 Sep 2001 19:09:47 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Working Group Adds Members
Message-ID: <LYR11589-37006-2001.09.18-18.36.31--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <942767748.1000840187@[192.168.1.235]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The APRS Working Group is pleased to announce that Bill Diaz, KC9XG, and Roger Barker, G4IDE, have joined the WG effective immediately.

Bill is the author of the A-Filter software and has been actively involved in discussions around the APRS Internet specification. Roger is the author of UI-view and brings a valuable international perspective to the WG.

We're excited to have them in the Working Group, and look forward to the

value they will add to the APRS standards process.

For the APRS Working Group,

John N8UR
Administrative Chair
jra@febo.com -- n8ur@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 18 18:34:03 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA26665
for <lyris.aprsspec@tapr.org>; Tue, 18 Sep 2001 18:34:00 -0500 (CDT)
Date: Tue, 18 Sep 2001 19:32:34 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Digital Communications Conference -- Final Update
Message-ID: <LYR11589-37013-2001.09.18-18.57.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <944134874.1000841554@[192.168.1.235]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Well, the Digital Communications Conference is only a few days away. If you can make your way to Cincinnati, Ohio this weekend (Sept. 21-22) we invite you to attend the show -- registration is available at the door. Full details, including the current schedule, are available at <http://www.tapr.org/dcc>.

Here's a brief rundown; note that due to the tragic events of last week, we've had to make some adjustments to the schedule.

Friday:

Registration Opens 9:00AM

APRS Forum 1:00 - 6:00PM
(The morning part of the Forum has been cancelled.)

PRUG Social 7:00PM
activities (Come enjoy the hospitality and see the latest
of the Packet Radio Users Group of Tokyo, Japan.)

Saturday:

Registration Opens 7:15AM

Main Program 8:00AM - 5:00PM
(There will be a mix of introductory sessions on new
aspects of digital communication, as well as more
advanced topics. We think there'll be something
for everyone.)

TAPR Membership Meeting 5:00PM

Banquet 7:00PM
Amateur (Anthony Curtis, K3RXK will speak on "40 Years of
Radio in Space.")

NOTE: We've regretfully had to cancel the Sunday Seminar. If you
registered for it, please stop at the registration area or contact TAPR to
arrange a refund.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Sep 22 18:09:38 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA23815
for <lyris.aprsspec@tapr.org>; Sat, 22 Sep 2001 18:09:32 -0500 (CDT)
Message-Id: <LYR11589-37874-2001.09.22-18.33.32--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Sat, 22 Sep 2001 18:10:17 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Developers

In-Reply-To: <LYR11608-35908-2001.09.13-16.48.49--dvanhorn#cedar.net@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4.3.2.7.2.20010922180930.00cc4de0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Is there a forum, other than this one, to speak to the APRS developers,
without involving the main APRS sig?

--

Dave's Engineering Page: <http://www.dvanhorn.org>

Got a need to read Bar codes? <http://www.barcodechip.com>
Bi-directional read of UPC-A, UPC-E, EAN-8, EAN-13, JAN, and Bookland, with
two or five digit supplemental codes, in an 8 pin chip, with NO external parts.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 23 22:45:00 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA17642
for <lyris.aprsspec@tappr.org>; Sun, 23 Sep 2001 22:44:58 -0500 (CDT)
Message-ID: <LYR11589-38104-2001.09.23-23.09.21--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Rich Beckwith" <wn0x@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR25006-37668-2001.09.21-19.16.42--
steve.bragg#itelemetry.net@lists.tappr.org> <LYR22238-37673-2001.09.21-19.32.07--
wn0x#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Area Objects Revisited
Date: Sun, 23 Sep 2001 22:48:30 -0500
Organization: WNOX
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000701c144ab\$c805bc40\$b0ae85ce@WN0X>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Except for the line object (type 6 - down/left) all area objects are referenced from their upper left hand corner. This is problematic when considering the circle, ellipse and triangle objects. Where is the upper left hand corner of an ellipse, circle, triangle?

Wouldn't it make more sense to say that these objects are referenced from the upper left hand corner of the "bounding rectangle" containing the object? The bounding rectangle would be the smallest possible rectangle containing the area object. All versions of the Windows operating system reference circles and ellipses drawn by their "bounding rectangle". While I understand that the original concept was developed as part of APRSDOS, it might make sense to change the APRS spec in this regard to make it consistent with the majority of the pc operating systems in use, especially when we are trying to gain consistency with the way these objects are drawn on a map. My guess is that all Intel based operating systems draw these objects in this fashion. Perhaps our Linux developers can shed some light on this.

Triangles?

Can we assume that we are talking about equallateral triangles? If so, wouldn't it make sense to refer to the position as the first point on the triangle, the offset as the second point, then draw the rest of the triangle in a counter clockwise fashion? This also allows us to draw the triangle at any "angle".

Also, what would the practical use of a triangle as an area object be? Can anyone think of examples?

Regards,

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 07:57:23 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA00721
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 07:57:21 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 24 Sep 2001 08:56:52 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects Revisited
In-Reply-To: <LYR11586-38104-2001.09.23-23.09.21--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-38152-2001.09.24-08.21.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.33.0109240852190.18942-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 23 Sep 2001, Rich Beckwith wrote:

> Except for the line object (type 6 - down/left) all area objects are
> referenced from their upper left hand corner. This is problematic when
> considering the circle, ellipse and triangle objects. Where is the upper
> left hand corner of an ellipse, circle, triangle?

For the circle it is the upper left corner of a box that contains the
circle.

> Wouldn't it make more sense to say that these objects are referenced from
> the upper left hand corner of the "bounding rectangle" containing the
> object?

Yes. same thing.

> The bounding rectangle would be the smallest possible rectangle
> containing the area object. All versions of the Windows operating
> system reference circles and ellipses drawn by their "bounding
> rectangle". While I understand that the original concept was
> developed as part of APRSDOS, it might make sense to change the APRS
> spec in this regard to make it consistent with the majority of the pc
> operating systems in use, especially when we are trying to gain
> consistency with the way these objects are drawn on a map. My guess is
> that all Intel based operating systems draw these objects in this
> fashion. Perhaps our Linux developers can shed some light on this.

No change needed, since what you suggest is the way it is supposed to be,
unless you are saying that the wording is confusing?

>
> Triangles?
> Can we assume that we are talking about equilateral triangles? If so,
> wouldn't it make sense to refer to the position as the first point on the
> triangle, the offset as the second point, then draw the rest of the triangle
> in a counter clockwise fashion? This also allows us to draw the triangle at
> any "angle".

The first point is the APEX. The second point is the lower right. Since
it is an isosceles triangle, then the other side is defined.

Hope that helps.
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 08:32:22 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA03513
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 08:32:20 -0500 (CDT)
Message-Id: <LYR11589-38155-2001.09.24-08.56.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 24 Sep 2001 08:35:58 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Area Objects Revisited
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sbaef071.024@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA03513

Unless I missed something, no mention is made of a bounding rectangle for circles/ellipses. Also, no mention of how a triangle object is supposed to be drawn either. This would be a big help.

>No change needed, since what you suggest is the way it is supposed to be,
>unless you are saying that the wording is confusing?

Thanks for your help Bob.

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 24 16:41:02 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA14079
for <lyris.aprsspec@tappr.org>; Mon, 24 Sep 2001 16:40:57 -0500 (CDT)
Message-Id: <LYR11589-38237-2001.09.24-17.05.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 24 Sep 2001 16:44:01 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sba62ee.002@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id QAA14079

<SNIP>

>Later, I communicated privately with Bob because this equation still
>seemed to create the wrong size areas. He sent me some example objects,
>describing their sizes (i.e.: rectangle 20miles by 30miles), for me to
>compare. I then was sure that the above equation is not correct.
>Bob then sent me a code snippet and I believe I found the correct equation
>and a possible explanation of the confusion:

>offset_in_degrees = (offset_in_packet^2) / 1500

>Using that equation gave me areas with sizes the same as the example
>objects that Bob had sent me. I believe the confusion may have come from
>the comment near that section of code that talks about 100ths of a degree
>squared.
>Comments?
>--
>Olivier Calle

I understand (offset_in_packet^2), but why are you dividing by 1500 instead of 100
(1/100ths of a degree)?

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 24 16:55:32 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15151
for <lyris.aprsspec@tappr.org>; Mon, 24 Sep 2001 16:55:28 -0500 (CDT)
Message-Id: <LYR11589-38239-2001.09.24-17.19.50--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 24 Sep 2001 16:58:50 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Objects Symbol Table?
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sba665e.003@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id QAA15151

Is there a reason why the alternet symbol table wasn't used for the area object?
I was under the impression that it was required.

>>> Bob Bruninga <bruninga@usna.edu> 07/26/01 07:33AM >>>
Here are the codes for two test objects:

```
;CIRCLE *071423z3900.00N/07200.00W/15211325 with a radius of 22.3 mi  
;RECTANGLE*071424z3900.00N/07200.00W/19321331 47mi high by 35 mi wide
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 24 16:59:33 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15637
for <lyris.aprsspec@tappr.org>; Mon, 24 Sep 2001 16:59:32 -0500 (CDT)
Message-Id: <LYR11589-38241-2001.09.24-17.23.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Mon, 24 Sep 2001 17:02:51 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Objects Symbol Table?
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sba6751.005@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA15637

Also, is there supposed to be a "/" after the posit? Shouldn't this be where the symbol id "l" should be? I am not trying to be picky, just making sure I haven't missed something important!

Rich

>>> "Rich Beckwith" <Rich@dps.state.mo.us> 09/24/01 04:58PM >>>

Is there a reason why the alternet symbol table wasn't used for the area object?
I was under the impression that it was required.

>>> Bob Bruninga <bruninga@usna.edu> 07/26/01 07:33AM >>>
Here are the codes for two test objects:

```
;CIRCLE *071423z3900.00N/07200.00W/15211325 with a radius of 22.3 mi  
;RECTANGLE*071424z3900.00N/07200.00W/19321331 47mi high by 35 mi wide
```

You are currently subscribed to aprsspec as: rich@dps.state.mo.us
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:05:54 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA16618
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:05:49 -0500 (CDT)

Date: Mon, 24 Sep 2001 15:05:33 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR24539-38237-2001.09.24-17.05.15--
olivier@calle.org@lists.tapr.org>
Message-ID: <LYR11589-38249-2001.09.24-17.30.11--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.33.0109241450440.7362-100000@tesla.intra.calle.org>
Precedence: bulk

On Mon, 24 Sep 2001, Rich Beckwith said:

RB> I understand ($\text{offset_in_packet}^2$), but why are you dividing by 1500
RB> instead of 100 (1/100ths of a degree)?

First of all, forget what the spec says. From what I understand, the information in the spec is the best that the spec writer could come up with when he wrote it and it did not receive much attention before the spec was released.

If you check out the archives of this list, you will see a few threads on the topic of area objects, at least one instigated by me. The division by 1500 was something I found after talking to Bob and receiving a snippet of basic code from him (presumably of APRSdos). I can assure you that this code I saw does the following operation:
 $(\text{offset_in_packet}^2) / 1500$

My theory on where the 100ths comes from is the `_comment_` at this line of code which says this: Increments of 100ths of a deg^2
Remember, the comment says that but the code does divide by 1500.

If you want to look at code that I believe is correct, check out a CVS copy of the Xastir source. You can find out how to get it at www.xastir.org

73,

--

Olivier Calle

internet: <olivier@calle.org>
work tel: 425-446-5088 home tel: 360-658-2692 To err is human,
callsign: N7TAP, class: General to really foul up
job: Fluke Networks, Sr. Software Engineer requires the root
WWW Page URL: <http://calle.org/olivier/> password...
Psalm 48:14 SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:08:02 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA16803
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:07:56 -0500 (CDT)
Date: Mon, 24 Sep 2001 15:07:38 -0700 (PDT)
From: Olivier Calle <olivier@calle.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects Symbol Table?
In-Reply-To: <LYR24539-38241-2001.09.24-17.23.53--
olivier@calle.org@lists.tapr.org>
Message-ID: <LYR11589-38252-2001.09.24-17.32.17--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.LNX.4.33.0109241505590.7362-1000000@tesla.intra.calle.org>
Precedence: bulk

On Mon, 24 Sep 2001, Rich Beckwith said:

RB> Also, is there supposed to be a "/" after the posit? Shouldn't this
RB> be where the symbol id "1" should be? I am not trying to be picky,
RB> just making sure I haven't missed something important!

...

RB> Is there a reason why the alternet symbol table wasn't used for the
RB> area object? I was under the impression that it was required.

I'm not sure, but it may be that Bob typed these in by hand. As far as I

can gather, your comments above are accurate and correct.

73,

--

Olivier Calle

internet: <olivier@calle.org>

work tel: 425-446-5088 home tel: 360-658-2692

callsign: N7TAP, class: General

job: Fluke Networks, Sr. Software Engineer

WWW Page URL: <http://calle.org/olivier/>

Psalm 48:14

To err is human,
to really foul up
requires the root
password...

SPU Electrical Engineering Graduate

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:22:34 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA18955

for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:22:27 -0500 (CDT)

Message-ID: <LYR11589-38257-2001.09.24-17.46.51--

lyris.aprsspec@tapr.org>

From: "Roger Bille" <roger.bille@telia.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR25861-38241-2001.09.24-17.23.53--

roger.bille@telia.com>

Subject: [aprsspec] Re: Area Objects Symbol Table?

Date: Tue, 25 Sep 2001 00:22:21 +0200

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <022601c14547\$614b3d80\$664ba8c0@ws1rogerb6>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Rich,

Try these instead:

```
;CIRCLE *071423z3900.00N\07200.00W15211325 with a radius of 22.3 mi
;RECTANGLE*071424z3900.00N\07200.00W19321331 47mi high by 35 mi wide
```

Note the backslash between the lat/long and no slash after the W. Also note that the character after W is a lower case L and not digit one.

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:25:03 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19064
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:24:59 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 24 Sep 2001 18:24:39 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR11586-38237-2001.09.24-17.05.15--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-38259-2001.09.24-17.49.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.33.0109241821080.24730-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 24 Sep 2001, Rich Beckwith wrote:

> I understand (offset_in_packet^2), but why are you dividing by 1500
> instead of 100 (1/100ths of a degree)?

To scale it down to usable sizes. Since we only had digits from 01 to 99, then we only had a certain range of sizes. It was felt that 1500 as a divisor got them down to small sizes that were useful while not limiting the large ones too much...

So it is just a random scaling factor.

If I remember correctly the smallest box can be 60 feet across?

and the largest 100 miles or so? Been a long time... so you are closer to knowing the answer than I without a lot of research...

But we did want to be able to draw a small box...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:31:12 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19463
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:31:08 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 24 Sep 2001 18:30:52 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Objects Symbol Table?
In-Reply-To: <sbaf665e.004@dps.state.mo.us>
Message-ID: <LYR11589-38260-2001.09.24-17.55.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.33.0109241829340.24730-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 24 Sep 2001, Rich Beckwith wrote:

> Is there a reason why the alternet symbol table wasn't used for the
> area object? I was under the impression that it was required.

Yes, I goofed! SShould have been an alternate table. I better check my code. (It originally was primary until we added the alternate table) then it made more sense for it to be an alternate. So we wwrote the spec that way. Most of us probably accept either. But I should definately not have been transmitting it that way!

> > > >>> Bob Bruninga <bruninga@usna.edu>
07/26/01 07:33AM >>> > Here are the codes for two test objects:
>
> ;CIRCLE *071423z3900.00N/07200.00W/15211325 with a radius of 22.3 mi
> ;RECTANGLE*071424z3900.00N/07200.00W/19321331 47mi high by 35 mi wide
>
>

de WB4APR@amsat.org, Bob

ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
PCsat Design <http://www.ew.usna.edu/~bruninga/pcsat.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 24 17:32:41 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA19517
for <lyris.aprsspec@tapr.org>; Mon, 24 Sep 2001 17:32:39 -0500 (CDT)
Date: Mon, 24 Sep 2001 15:32:06 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR12892-38237-2001.09.24-17.05.15--
hacker#tc.fluke.com@lists.tapr.org>
Message-ID: <LYR11589-38261-2001.09.24-17.56.57--

lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.10.10109241446220.2056-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 24 Sep 2001, Rich Beckwith wrote:

> I understand (offset_in_packet^2), but why are you dividing by
> 1500 instead of 100 (1/100ths of a degree)?

Because the spec itself is wrong! It has a few other deficiencies:

Ellipses haven't been implemented in any software yet (someone correct me if I'm wrong).

Triangles are always isosceles triangles, oriented vertically as Bob said. The spec needs more detail as to their definition, including the fact that they are isosceles, oriented vertically, and where the point of reference is located.

The exact definition of circles isn't specified in the spec. I think Bob said they fit inside a box with the lat/lon dimensions in the packet.

The point of reference for objects is different than the spec uses. Spec says upper-left. Lower-right is correct for some, one line uses lower-left, one line uses lower-right, circles use center, and triangles use lower-right again.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 24 17:37:43 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20033
for <lyris.aprsspec@tappr.org>; Mon, 24 Sep 2001 17:37:39 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 24 Sep 2001 18:37:20 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Objects Symbol Table?
Message-ID: <LYR11589-38264-2001.09.24-18.01.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.33.0109241836430.24730-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Wow, I really screwed up that one. Yes, I have no idea how or why I put
the "/" in there! Yes, it should be the lower case "L".

good eye..

bob

On Mon, 24 Sep 2001, Rich Beckwith wrote:

> Also, is there supposed to be a "/" after the posit? Shouldn't this
> be where the symbol id "l" should be? I am not trying to be picky,
> just making sure I haven't missed something important!
>
> Rich
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Sep 25 17:01:13 2001

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20241
for <lyris.aprsspec@tappr.org>; Tue, 25 Sep 2001 17:01:08 -0500 (CDT)
Message-Id: <LYR11589-38494-2001.09.25-17.25.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 25 Sep 2001 17:04:28 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sbb0b927.010@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id RAA20241

<SNIP>

>The point of reference for objects is different than the spec uses.
>Spec says upper-left. Lower-right is correct for some, one line uses
>lower-left, one line uses lower-right, circles use center, and
>triangles use lower-right again.

Curt, I don't think this is right. I believe all the shapes are referenced by the upper left corner of the "Bounding Rectangle" that contains the area object, even for circles.

The only exception is #6 - Line (offset: Down/Left)

Incidentally, if you use a bounding rectangle, there is no need for a "circle" object. It is simply an ellipse bounded by a rectangle of equal sides (square).

Bob,

I noticed that if I use the example circle you provided I end up drawing an ellipse. Can this be corrected and still project the maps in WGS84?

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 25 18:55:26 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA27644
for <lyris.aprsspec@tapr.org>; Tue, 25 Sep 2001 18:55:26 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 25 Sep 2001 19:49:16 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR11586-38494-2001.09.25-17.25.31--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-38523-2001.09.25-19.19.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.33.0109251946180.27760-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 25 Sep 2001, Rich Beckwith wrote:

> I noticed that if I use the example circle you provided I end up
> drawing an ellipse. Can this be corrected and still project the maps
> in WGS84?

In what kind of software? Or map projection? Mercator? Circles of equal radius on those maps (Like WinAPRS) will always are an elipse. APRSdos varies its longitude extent by the cosine of the latitude so that a circle of equal range is a circle on the map... It really doesnt matter. As long as a "circle" of radius 50 miles plots as a graphic that is 50 miles in all directions from the center...

Hope that helps
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Sep 26 17:31:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA13948
for <lyris.aprsspec@tapr.org>; Wed, 26 Sep 2001 17:31:33 -0500 (CDT)
Date: Wed, 26 Sep 2001 15:31:18 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <sbb0b927.011@dps.state.mo.us>
Message-ID: <LYR11589-38766-2001.09.26-17.56.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.10.10109261523240.2056-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 25 Sep 2001, Rich Beckwith wrote:

> <SNIP>
> >The point of reference for objects is different than the spec uses.
> >Spec says upper-left. Lower-right is correct for some, one line uses
> >lower-left, one line uses lower-right, circles use center, and
> >triangles use lower-right again.
>
> Curt, I don't think this is right. I believe all the shapes are referenced by
the upper left corner of the "Bounding Rectangle" that contains the area object,
even for circles.

Nope. You're probably looking at the spec. It's not correct in this
instance. That part of the spec evidently wasn't gone through with
a fine-toothed comb before release. See how APRSdos does it. That's
basically the first reference implementation, and the spec was

written after APRSdos. Note that you'll see size differences still between WinAPRS and APRSdos w.r.t. area objects. I think the sizes are the same now between APRSdos and Xastir, thanks to Olivier.

> Incidentally, if you use a bounding rectangle, there is no need for a "circle" object. It is simply an ellipse bounded by a rectangle of equal sides (square).

No argument there. The area object definitions in the spec could use some rethinking (my opinion).

> I noticed that if I use the example circle you provided I end up drawing an ellipse. Can this be corrected and still project the maps in WGS84?

The reason it draws an ellipse with some map software/map projections is that the aprs spec defines the sizes in lat/long, not in distances. You have to mismatch the X/Y offsets in order to see circles or squares with any map software that uses equal-distance projections. I think I said that right.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Sep 27 08:28:17 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA28312
for <lyris.aprsspec@tapr.org>; Thu, 27 Sep 2001 08:28:13 -0500 (CDT)
Message-Id: <LYR11589-38854-2001.09.27-08.52.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 27 Sep 2001 08:31:31 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <sbb2e3eb.056@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA28312

>>> "Curt Mills, WE7U" <hacker@tc.fluke.com> 09/26/01 05:31PM >>>
On Tue, 25 Sep 2001, Rich Beckwith wrote:

> <SNIP>
> >The point of reference for objects is different than the spec uses.
> >Spec says upper-left. Lower-right is correct for some, one line uses
> >lower-left, one line uses lower-right, circles use center, and
> >triangles use lower-right again.
>
> Curt, I don't think this is right. I believe all the shapes are referenced by
the upper left corner of the "Bounding Rectangle" that contains the area object,
even for circles.

We would have to check with Bob, but am am positive he advised that even circles
are referenced from the upper left hand corner of their bounding rectangle. It
does make sense to draw a circle from its center though. Much easier for the end
user to visualize when they are creating the object.

If you have a test log, I would be glad to run it and send the output to you for
comparison. Heck, lets post it on a web site so people can look at it and
compare.

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Sep 27 10:53:36 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA09758
for <lyris.aprsspec@tapr.org>; Thu, 27 Sep 2001 10:53:33 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 27 Sep 2001 11:53:13 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR11586-38854-2001.09.27-08.52.38--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-38880-2001.09.27-11.18.01--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.33.0109271152220.6164-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 27 Sep 2001, Rich Beckwith wrote:

> We would have to check with Bob, but am am positive he advised that
> even circles are referenced from the upper left hand corner of their
> bounding rectangle. It does make sense to draw a circle from its
> center though. Much easier for the end user to visualize when they
> are creating the object.

Yes, "bounded by the box" but the box in this case is defined in the
AREA-OBJECT format as the upper left corner and the center...
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Sep 27 12:59:14 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA21271
for <lyris.aprsspec@tappr.org>; Thu, 27 Sep 2001 12:59:10 -0500 (CDT)
Message-Id: <LYR11589-38921-2001.09.27-13.23.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Thu, 27 Sep 2001 13:02:33 -0500
From: "Rich Beckwith" <Rich@dps.state.mo.us>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <sbb32375.058@dps.state.mo.us>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id MAA21271

> We would have to check with Bob, but am am positive he advised that
> even circles are referenced from the upper left hand corner of their
> bounding rectangle. It does make sense to draw a circle from its
> center though. Much easier for the end user to visualize when they
> are creating the object.

>>Yes, "bounded by the box" but the box in this case is defined in the
>>AREA-OBJECT format as the upper left corner and the center...
>>bob

Now you have lost me. How can the circle be "bounded" by its upper left hand corner and the center? To be "bounded" the circle must lie completely within the boundaries of the rectangle. Are you saying the the Offset is the center of the circle, and the POSIT is the upper left hand corner?

Rich

You are currently subscribed to aprsspec as: rich@dps.state.mo.us
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Sep 27 13:59:57 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA26648
for <lyris.aprsspec@tappr.org>; Thu, 27 Sep 2001 13:59:57 -0500 (CDT)
Date: Thu, 27 Sep 2001 11:59:35 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <sbb2e3eb.057@dps.state.mo.us>
Message-ID: <LYR11589-38928-2001.09.27-14.24.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.10.10109271145460.2056-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 27 Sep 2001, Rich Beckwith wrote:

> > Curt, I don't think this is right. I believe all the shapes are referenced by the upper left corner of the "Bounding Rectangle" that contains the area object, even for circles.

It's the lower-right corner though. The spec is wrong in this regard. WinAPRS draws area with different sizes than APRSdos, but I think it draws them with the same reference point (lower-right).

I can't claim to remember anymore what Bob said about circles. The Xastir developer who coded the area objects went through great pains to make sure that they agreed with Bob view. It's always possible he missed one though.

I could start up a virtual machine here to test things but don't have the time right now. Would have to install the programs and such.

Can someone with WinAPRS and/or DOSapr create a few area objects and report back where the reference point is located? Also the approximate sizes of the objects?

> We would have to check with Bob, but am am positive he advised that even circles are referenced from the upper left hand corner of their bounding rectangle. It does make sense to draw a circle from its center though. Much easier for the end user to visualize when they are creating the object.

>

> If you have a test log, I would be glad to run it and send the output to you for comparison. Heck, lets post it on a web site so people can look at it and compare.

I'm game. I'd like to see what Bob and the rest of the authors have to say about it. I do have a test file, but I'd have to run it down.

I'll bug Olivier and see what he remembers about circles. It wasn't too many months ago that he implemented area objects.

It'd be nice to get public buy-in _and_ get the spec corrected, so that new authors don't go down the wrong path.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Sep 27 14:15:11 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA27642
for <lyris.aprsspec@tapr.org>; Thu, 27 Sep 2001 14:15:09 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 27 Sep 2001 15:14:56 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <sbb32375.059@dps.state.mo.us>
Message-ID: <LYR11589-38931-2001.09.27-14.39.40--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.33.0109271514180.23973-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 27 Sep 2001, Rich Beckwith wrote:

> > We would have to check with Bob, but am am positive he advised that
> > even circles are referenced from the upper left hand corner of their
> > bounding rectangle. It does make sense to draw a circle from its
> > center though. Much easier for the end user to visualize when they
> > are creating the object.
>
> >>Yes, "bounded by the box" but the box in this case is defined in the
> >>AREA-OBJECT format as the upper left corner and the center...
> >>bob
>
> Now you have lost me. How can the circle be "bounded" by its upper
> left hand corner and the center? To be "bounded" the circle must lie
> completly within the boundries of the rectangle. Are you saying the
> the Offset is the center of the circle, and the POSIT is the upper
> left hand corner?

Upper left corner of the box and center of the box
bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Sep 27 14:26:15 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28878
for <lyris.aprsspec@tappr.org>; Thu, 27 Sep 2001 14:26:13 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 27 Sep 2001 15:25:53 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <Pine.GS0.4.10.10109271203060.2056-100000@dogbert.tc.fluke.com>

Message-ID: <LYR11589-38932-2001.09.27-14.50.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.33.0109271520040.23973-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

To answer Kurts question:

It is "upper left to lower right". But I think the lower right point is the LAT/LONG transmitted and the offset then refers back to the "offset point" which is the upper left.

THis is all just symantics. You see, in DOS you have to move the cursor to the upper left corner. Then center the MAP as the starting point. (hit HOME key) then move cursor down to the lower right and hit INPUT-ADD-OBJECT etc... Thus "upper left to lower right"...

But it is the coordinates of the CURSOR (now in the lower right) that are placed into the OBJECT format and the offset refers back to the original upper left point which is now at the center of the APRSdos map.

You see, APRS dos has no click and drag. SO I used the MAP center and cursor locations as the two points to define objects...

Hope that helps...

de WB4APR@amsat.org, Bob

ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
PCsat Design	http://www.ew.usna.edu/~bruninga/pcsat.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Sep 27 17:19:44 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10928
for <lyris.aprsspec@tappr.org>; Thu, 27 Sep 2001 17:19:43 -0500 (CDT)
Date: Thu, 27 Sep 2001 13:34:19 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Area Object Sizing
In-Reply-To: <LYR12892-38921-2001.09.27-13.23.36--
hacker@tc.fluke.com@lists.tappr.org>
Message-ID: <LYR11589-38960-2001.09.27-17.44.11--
lyris.aprsspec@tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.10.10109271330290.2056-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 27 Sep 2001, Rich Beckwith wrote:

> > We would have to check with Bob, but am am positive he advised that
> > even circles are referenced from the upper left hand corner of their
> > bounding rectangle. It does make sense to draw a circle from its
> > center though. Much easier for the end user to visualize when they
> > are creating the object.
>
> >>Yes, "bounded by the box" but the box in this case is defined in the
> >>AREA-OBJECT format as the upper left corner and the center...
> >>bob
>
> Now you have lost me. How can the circle be "bounded" by its upper left hand
corner and the center? To be "bounded" the circle must lie completely within the
boundries of the rectangle. Are you saying the the Offset is the center of the
circle, and the POSIT is the upper left hand corner?

Very close. The posit is the center of the circle, and the offset is
the upper left corner of the bounding box.

Curt Mills, WE7U

hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Sep 27 22:20:07 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA00187

for <lyris.aprsspec@tapr.org>; Thu, 27 Sep 2001 22:20:06 -0500 (CDT)

Date: Thu, 27 Sep 2001 14:44:27 -0700 (PDT)

From: "Curt Mills, WE7U" <hacker@tc.fluke.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: aprsspec@lists.tapr.org

Subject: [aprsspec] Re: Area Object Sizing

In-Reply-To: <sbb2e3eb.057@dps.state.mo.us>

Message-ID: <LYR11589-39013-2001.09.27-22.44.30--

lyris.aprsspec#tapr.org@lists.tapr.org>

Organization: Fluke Corporation

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <Pine.GS0.4.10.10109271442490.2056-1000000@dogbert.tc.fluke.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Thu, 27 Sep 2001, Rich Beckwith wrote:

> If you have a test log, I would be glad to run it and send the output to you for comparison. Heck, lets post it on a web site so people can look at it and compare.

Hopefully you saw that last message from Bob B. He explained how he was generating the objects with his software. Good info.

Try this:

<http://www.eskimo.com/~archer/objects.html>

It has a link to the file I used to generate the objects as well as screen grabs from Xastir.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Oct 8 18:28:44 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA15598
for <lyris.aprsspec@tapr.org>; Mon, 8 Oct 2001 18:28:40 -0500 (CDT)
User-Agent: Microsoft-Entourage/9.0.1.3108
Date: Mon, 08 Oct 2001 19:27:06 -0400
Subject: [aprsspec] ADMIN: Monthly Message
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-40914-2001.10.08-18.53.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B7E7AE49.A164%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA15598

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with

≥this is off-topic≤ then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)

- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)

- . Do not send messages in HTML or Rich Text format.

- . Do not send attachments.

- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)

- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Oct 13 16:17:32 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA24944
for <lyris.aprsspec@tapr.org>; Sat, 13 Oct 2001 16:17:31 -0500 (CDT)
Date: Sat, 13 Oct 2001 16:17:07 -0500
Message-Id: <LYR11589-41614-2001.10.13-16.42.40--
lyris.aprsspec@tapr.org@lists.tapr.org>

From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Sample compressed packets?
X-IPAddress: 209.83.83.50
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200110132117.QAA32383@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi,

I'm looking for some samples of compressed (ie BASE-91) packets.

Thanks,

-Jim Jefferson KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Oct 13 22:37:51 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA15123
for <lyris.aprsspec@tapr.org>; Sat, 13 Oct 2001 22:37:46 -0500 (CDT)
Message-ID: <LYR11589-41652-2001.10.13-23.02.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 13 Oct 2001 23:24:11 -0400
From: Alex <kr1st@amsat.org>
Reply-To: kr1st@amsat.org
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Sample compressed packets?
References: <LYR23952-41614-2001.10.13-16.42.40--kr1st#amsat.org@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3BC9055B.FE027A50@amsat.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Jim,

You can construct them yourself using the info in the spec. That's what I just did to test my algorithms for the Cybiko. It gives you a good understanding of the encoding process.

73,
--Alex

James Jefferson wrote:

>
> Hi,
>
> I'm looking for some samples of compressed (ie BASE-91) packets.
>
> Thanks,
>
> -Jim Jefferson KB0THN
>
> ---
> You are currently subscribed to aprsspec as: kr1st@amsat.org
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Oct 20 18:08:46 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA23625
for <lyris.aprsspec@tapr.org>; Sat, 20 Oct 2001 18:08:44 -0500 (CDT)
Message-ID: <LYR11589-42616-2001.10.20-18.33.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Paul Vizard" <paul@golborne.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS drawing message
Date: Sat, 20 Oct 2001 18:07:24 -0500
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <001f01c159bc\$00da1320\$0200a8c0@golborne.dtdns.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Is there any current work been done on sending pictorial weather information? To be more specific, a way to send pictorial storm info (radar, cells etc) or fronts etc.

I have put a few notes together on a drawing message that could in a single packet, describe multiple drawing items that could be overlaid on a map.

I would welcome any comment.

<http://www.golborne.com/pubfiles/APRS%20draw%20message.txt>

(Please note that this document is a very early draft)

73, Paul

Paul A Vizard
- K5PAV -
paul@golborne.com

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.282 / Virus Database: 150 - Release Date: 9/25/01

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Oct 22 14:33:13 2001

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id OAA08733
for <lyris.aprsspec@tapir.org>; Mon, 22 Oct 2001 14:33:10 -0500 (CDT)
Date: Mon, 22 Oct 2001 12:32:16 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: APRS drawing message
In-Reply-To: <LYR12892-42616-2001.10.20-18.33.01--
hacker@tc.fluke.com@lists.tapir.org>
Message-ID: <LYR11589-42912-2001.10.22-14.58.36--
lyris.aprsspec@tapir.org@lists.tapir.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <Pine.GS0.4.10.10110221227370.10793-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Sat, 20 Oct 2001, Paul Vizard wrote:

> I have put a few notes together on a drawing message that could in a single
> packet, describe multiple drawing items that could be overlaid on a map.

Bob B. had proposed a drawing format earlier that would enable
sending multiple line segments in one APRS packet. As far as I know
it was never implemented or added to the spec though. You might to
into the archives and compare yours with his.

If some agreement could be made on this issue, I'd certainly try to
contribute by adding the feature to one software package. I'd like
more drawing capability than the APRS spec currently provides for.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tappr.org Tue Oct 23 15:19:06 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA09972
for <lyris.aprsspec@tappr.org>; Tue, 23 Oct 2001 15:19:06 -0500 (CDT)
Message-Id: <LYR11589-43114-2001.10.23-15.44.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: mcheavens@pop.amexmail.com
Date: Tue, 23 Oct 2001 15:18:42 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Mark Cheavens <mcheavens@usa.net>
Subject: [aprsspec] PHG calculation
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <4.3.1.2.20011023143753.00c12340@pop.amexmail.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I would like to hear some comments about the PHG calculation and why it appears to me that it does not take into account for the earth's curvature.

While doing to recent upgrades to the TNC's in the Houston area (All running UIDIGI) I was twiddling with PHG numbers so that I could get accurate coverage circles drawn around them. Most of the digis that I have (or control) are on tall buildings or towers, usually co-located with voice repeaters that are of known coverage areas.

I will just use ONE site in my example since it is easy to deal with.
Site location: Building top in Downtown Houston. Terrain FLAT (less than 100 feet of elevation change in any direction for 60-100miles). Building elevation above ground 650ft (pretty close to the 640) Digi Power output: 110Watts, 6DB (DB224 ant). This gives a range of 85miles.

Not a Chance!

IF I play with the numbers I can get the range that is accurate (35 miles SOLID coverage and 45 miles of 50% missed packets) If I use a number of 9430 for a range of 35miles. I can assure you that NO radio at 160ft covers that well.

If I play with other values it only gets worse. If I use our former site at 1400ft with a 12dB gain ant and 50Watts (UHF) (PHG7790) shows a range of 126miles....Not a chance! I had trouble shooting two 80 mile link paths with the both ends using yagi's and 300ft of elevation on the far ends.

I admit I only use APRS+SA so don't know about the others map apps, but wouldn't it be better to ditch phg and just use rng instead (APRS+SA does not support RNG).

Comments?

Mark Cheavens

KC5EVE

<http://www.cheavens.com/mark>

(mcheavens@usa.net)

Where am I now? <http://www.findu.com/cgi-bin/find.cgi?kc5eve-9>

Where have I been lately? <http://www.findu.com/cgi-bin/track1.cgi?kc5eve-9>

Where am I w/Weather radar?

http://www.findu.com/cgi-bin/find.cgi?kc5eve-9&radar=***

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 23 15:57:54 2001

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA13245

for <lyris.aprsspec@tapr.org>; Tue, 23 Oct 2001 15:57:53 -0500 (CDT)

X-Originating-IP: [12.10.100.210]

From: "J. Scott Ratchford" <w5jsr@hotmail.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: PHG calculation

Date: Tue, 23 Oct 2001 15:57:25 -0500

Mime-Version: 1.0

Content-Type: text/plain; format=flowed

Message-ID: <LYR11589-43117-2001.10.23-16.23.28--

lyris.aprsspec#tapr.org@lists.tapr.org>

X-OriginalArrivalTime: 23 Oct 2001 20:57:25.0954 (UTC)

FILETIME=[51C4FA20:01C15C05]

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

X-Message-Id: <F213ZvtRfJ4Ym3zL8Nv0000f28d@hotmail.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

For what it is worth,

real world, 8 watts at digi (formerly NAARS), home-made j-pole, 600 feet difference in it and my former location location, 43 miles separation, 100% copy.

real world, 10 watts at digi (WHTNY), home-made j-pole, 200 feet difference, over 200 miles separation, over 50% copy. digi-to-digi.

real world, 10 watts at digi (WHTNY), home-made j-pole, 200 feet difference, 23 miles separation, 100% copy. digi-to-qth.

real world, unknown watts at digi (CVNL), unknown antenna, aprox. 140 feet difference, 83 miles separation, better than 50% copy. digi-to-qth.

I know that if we go by PHG only, there are some differences in what we calculate and the real world. The best software I've seen for calculating coverage areas costs more than I would ever pay for it and uses geographical data. I have plotted this area and it was very accurate, but not 100%!

If your going to use PHG, then go a little conservative on your numbers and let it go at that. Then you can claim everything outside the circle as a bonus! <grin>

73 de W5JSR

From: Mark Cheavens <mcheavens@usa.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] PHG calculation
Date: Tue, 23 Oct 2001 15:18:42 -0500
MIME-Version: 1.0
Received: from [204.17.217.24] by hotmail.com (3.2) with ESMTP id MHotMailBD9F1BC3007F40043197CC11D91809150; Tue, 23 Oct 2001 13:19:23 -0700
>From bounce-aprsspec-14466@lists.tapir.org Tue, 23 Oct 2001 13:20:10 -0700
Return-Path: <mcheavens@usa.net>
Message-Id: <LYR14466-43114-2001.10.23-15.44.47--w5jsr#hotmail.com@lists.tapir.org>
X-Sender: mcheavens@pop.amexmail.com
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <4.3.1.2.20011023143753.00c12340@pop.amexmail.com>
Sender: bounce-aprsspec-14466@lists.tapir.org
Precedence: bulk

I would like to hear some comments about the PHG calculation and why it appears to me that it does not take into account for the earth's curvature.

While doing to recent upgrades to the TNC's in the Houston area (All running UIDIGI) I was twiddling with PHG numbers so that I could get accurate coverage circles drawn around them. Most of the digis that I have (or control) are on tall buildings or towers, usually co-located with voice repeaters that are of known coverage areas.

I will just use ONE site in my example since it is easy to deal with.
Site location: Building top in Downtown Houston. Terrain FLAT (less than 100 feet of elevation change in any direction for 60-100miles). Building elevation above ground 650ft (pretty close to the 640) Digi Power output: 110Watts, 6DB (DB224 ant). This gives a range of 85miles.

Not a Chance!

IF I play with the numbers I can get the range that is accurate (35 miles SOLID coverage and 45 miles of 50% missed packets) If I use a number of 9430 for a range of 35miles. I can assure you that NO radio at 160ft covers that well.

If I play with other values it only gets worse. If I use our former site at 1400ft with a 12dB gain ant and 50Watts (UHF) (PHG7790) shows a range of 126miles....Not a chance! I had trouble shooting two 80 mile link paths with the both ends using yagi's and 300ft of elevation on the far ends.

I admit I only use APRS+SA so don't know about the others map apps, but wouldn't it be better to ditch phg and just use rng instead (APRS+SA does not support RNG).

Comments?

Mark Cheavens

KC5EVE

<http://www.cheavens.com/mark>

(mcheavens@usa.net)

Where am I now? <http://www.findu.com/cgi-bin/find.cgi?kc5eve-9>

Where have I been lately? <http://www.findu.com/cgi-bin/track1.cgi?kc5eve-9>

Where am I w/Weather radar?

http://www.findu.com/cgi-bin/find.cgi?kc5eve-9&radar=***

You are currently subscribed to aprsspec as: w5jsr@hotmail.com

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 23 15:58:50 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA13573
for <lyris.aprsspec@tapr.org>; Tue, 23 Oct 2001 15:58:48 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 23 Oct 2001 16:58:18 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: PHG calculation
Message-ID: <LYR11589-43118-2001.10.23-16.24.25--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.33.0110231657240.12010-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

It was designed around relatively low antennas and it also more or less used radio ranges for voice repeatets (which works for fixed stations). But AX.25 mobiles suffer 30 dB or so worse performance because of mobile flutter (multipath) so the REAL circles are LOTS smaller than the PHG for a fixed station...

Problem is, we have such a mix of mobiles and fixed stations, that what is right for one is wrong for the other. I would prefer that we draw TWO circles around each PHG station. One is the existing one and the other is about HALF the range and is for mobiles.. hummh.....

Bob

On Tue, 23 Oct 2001,

Mark Cheavens wrote:

> I would like to hear some comments about the PHG calculation and why it
> appears to me that it does not take into account for the earth's curvature.
> snip>
> I admit I only use APRS+SA so don't know about the others map apps, but
> wouldn't it be better to ditch phg and just use rng instead (APRS+SA does
> not support RNG).
> Mark Cheavens
> KC5EVE
> <http://www.cheavens.com/mark>
> (mcheavens@usa.net)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Oct 23 16:17:08 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15910
for <lyris.aprsspec@tapr.org>; Tue, 23 Oct 2001 16:17:05 -0500 (CDT)
Errors-To: <jeff@aerodata.net>
Message-ID: <LYR11589-43120-2001.10.23-16.42.50--
lyris.aprsspec@tapr.org>
Date: Tue, 23 Oct 2001 17:13:15 -0400
From: Jeff King <jeff@aerodata.net>
Organization: Aero Data Systems, Inc.
User-Agent: Mozilla/5.0 (Windows; U; Win 9x 4.90; en-US; rv:0.9.2) Gecko/20010726
Netscape6/6.1
X-Accept-Language: en-us
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: PHG calculation
References: <LYR22299-43117-2001.10.23-16.23.28--jeff@aerodata.net>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3BD5DD6B.1040208@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

J. Scott Ratchford wrote:

```
> calculate and the real world. The best software I've seen for  
> calculating coverage areas costs more than I would ever pay for it and  
> uses geographical data. I have plotted this area and it was very  
> accurate, but not 100%!
```

Try Radio Mobile: <http://www.cplus.org/rmw/english1.html>

Free and fairly accurate. Plus now has APRS support.

-Jeff

```
|-----|  
| Jeff King 248-471-1787 F 248-471-0279 e-mail: jeff@aerodata.net |  
|  
| "They that give up essential liberty to obtain a little temporary safety |  
| deserve neither liberty nor safety." -- Benjamin Franklin, 1759 |  
|-----|
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Nov 3 08:41:35 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA00810
for <lyris.aprsspec@tappr.org>; Sat, 3 Nov 2001 08:41:29 -0600 (CST)
User-Agent: Microsoft-Entourage/9.0.1.3108
Date: Sat, 03 Nov 2001 09:39:54 -0500
Subject: [aprsspec] ADMIN: Monthly Reminder
From: Stan Horzempa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-44986-2001.11.03-09.07.32--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <B8096B2D.7E6%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA00810

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tappr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with

≥this is off-topic≤ then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)

- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)

- . Do not send messages in HTML or Rich Text format.

- . Do not send attachments.

- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)

- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wa1lou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 7 18:53:30 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25266
for <lyris.aprsspec@tapr.org>; Wed, 7 Nov 2001 18:53:28 -0600 (CST)
Message-Id: <LYR11589-45784-2001.11.07-19.19.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Type: text/plain;

charset="iso-8859-1"
From: James Jefferson <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] NAVI-TRA Conversion
Date: Wed, 7 Nov 2001 18:52:31 -0600
Cc: aprsinet-spec@lists.sourceforge.net
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200111080047.fA801R112266@mailserv.hbci.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Everyone,

I implemented a very simple NAVI-TRA posit to APRS conversion (per Bob's specification)

Here is a sample packet:

SOURCE>APRS:@072146z3546.79N/13929.51Er005/000/TOKOROZAWA

that was generated with the following input (captured from real data)

SOURCE>APRS:

\$PNTS,1,0,07,11,2001,214654,3546.793,N,13929.515,E,64,,5,TOKOROZAWA,000,1*16

I've attached the source code, which I developed on a Linux box (but should work on anything, hopefully). It's not pretty, but I think it works.

-James Jefferson KB0THN

#include <stdio.h>
#include <string.h>

double atof();

```

unsigned char
nmea_0183_checksum (char *p)
{
    int checksum, start, done;
    checksum = start = done = 0;

    for (; *p != '\0'; p++)
    {
        if (*p == '*')
            done = 1;
        if (start == 1 && done == 0)
            checksum = checksum ^ *p;    // XOR
        if (*p == '$')
            start = 1;
    }
    return checksum;
}

int main(void)
{
    char information[256];
    char *p = information;
    char buffer[256];

    int i=0;
    int j;
    int len=0;
    char elements[20][20];    // Store each element until we can put in structure
    int element, last, checksum;
    unsigned char local_checksum;

    int hhmm;
    double latitude;
    double longitude;
    int speed=0;
    int direction=0;

    char symbol_table[] = { '0', 'Y', 'B', 'G', 'R', '/', '/', '/', '\\', '/',
        '\\', '/', '/', '/', '\\' };
    char symbol_code[] = { 'n', 'n', 'n', 'n', 'n', 'r', '-', 'V', ';', 'w', '<',
        '\\', 's', 'P', 'R' };

    //
    strcpy(information, "$PNTS,1,0,06,11,2001,002440,3531.676,N,13943.343,E,00,000,6,,0
00,1*28");
    strcpy(information, "$PNTS,1,0,07,11,2001,214654,3546.793,N,13929.515,E,64,,5,TOKOR
OZAWA,000,1*16");

```

```

local_checksum = nmea_0183_checksum (p);

if ( strstr(information,"$PNTS") )
{
#ifdef DEBUG
    printf("#####NAVI-TRA Packet#####\n");
    printf("Information: %s\n",information);
#endif

    for (i = 0; i < 20; i++)
        strcpy (elements[i], "");

    i = 0;
    element = 0;
    len=strlen(p);

    for ( ; j < len && (element < 20) ; p++, i++, j++)
    {
        if ( last == ',' && *p == ',' )
            elements[element][0] = '\0'; // make it a string!

        if (last == ',')
            i=0;
        if (*p == ',')
        {
            elements[element][i] = '\0'; // make it a string!
            i = 0;
            element++;
        }
        elements[element][i] = last = *p;
    }
    elements[element][i] = '\0'; // make it a string!

#ifdef DEBUG
    for (i = 0; (i < 20); i++)
        if (strcmp (elements[i], ""))
            printf ("elements[%d]: %s\n", i, elements[i]);
#endif

    hmmm = atoi(elements[6]) / 100;
    latitude = atof(elements[7]);
    longitude = atof(elements[9]);
    speed = atoi(elements[12]);
    direction = 360 / atoi(elements[11]);

    strtok(elements[16], "*");

```

```

        checksum=0;
        sscanf (strtok(NULL,"*"), "%2x", &checksum);
#ifdef DEBUG
        printf ("Scanned checksum: %02x Calculated: %02x\n",
checksum,local_checksum);
#endif

        if ( checksum == local_checksum )    // checksum is good
        {
            printf("@%s%04dz",elements[3],hhmm);
            printf("%04.2lf%s",latitude,elements[8]);
            printf("%c",symbol_table[atoi(elements[13])]);
            printf("%05.2lf%s",longitude,elements[10]);
            printf("%c",symbol_code[atoi(elements[13])]);
            printf("%03d/%03d/%s",direction,speed,elements[14]);
            printf("\n");
        } else {
            printf("Checksum failed!");
            return -1;
        }
    }

return 0;
}

```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 7 20:04:53 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA29392
for <lyris.aprsspec@tapr.org>; Wed, 7 Nov 2001 20:04:52 -0600 (CST)
Message-Id: <LYR11589-45804-2001.11.07-20.31.10--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NAVI-TRA Conversion
Date: Wed, 7 Nov 2001 20:04:51 -0600
Cc: aprsinet-spec@lists.sourceforge.net
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200111080159.fA81x1110419@mailserv.hbci.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Okay, there is a bug in that ... I forgot to initialize int j

in main change:

```
int j;
```

to

```
int j=0;
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Dec 1 08:26:07 2001
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA29894
for <lyris.aprsspec@tappr.org>; Sat, 1 Dec 2001 08:25:58 -0600 (CST)
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Sat, 01 Dec 2001 09:25:12 -0500
Subject: [aprsspec] Season's Greetings
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-49500-2001.12.01-08.53.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <B82E5278.521%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA29894

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tappr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topica≤ then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Dec 8 23:25:31 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA06370
for <lyris.aprsspec@tapr.org>; Sat, 8 Dec 2001 23:25:26 -0600 (CST)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-51002-2001.12.08-23.53.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 8 Dec 2001 21:25:11 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Timestamp in object message
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130300b838a3c70c30@[198.145.248.64]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, APRS Sig -

The list has been a bit quiet for a while. Here is a question that may well have been answered previously, but lacking a searchable list archive, I can't seem to find the answer.

On page 58 of the specification, it says: "An Object always has a timestamp."

But, on the previous page, 3rd paragraph, it says: "Object Reports specify an Object's position, can have an optional timestamp, and can include"

Which one of these is correct?

Many thanks to all of you,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 9 06:01:40 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA05208

for <lyris.aprsspec@tapr.org>; Sun, 9 Dec 2001 06:01:39 -0600 (CST)
Message-ID: <LYR11589-51047-2001.12.09-06.29.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Mohamed bin Jabor Althani" <a71ey@qatar.net.qa>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] WX Setup
Date: Sun, 9 Dec 2001 15:01:55 +0300
Organization: Amsat- Qatar
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <002401c180a9\$4cdc0300\$32c44dd4@mohamedalthani>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can somebody help how to connect my Davis WX with TNC im using her KPC-3+
running winaprs v2.5.1.

Thank you

Mohamed -A71EY
Qatar

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 9 11:08:05 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21294
for <lyris.aprsspec@tapr.org>; Sun, 9 Dec 2001 11:08:01 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 9 Dec 2001 12:07:49 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] e: Timestamp in object message
Message-ID: <LYR11589-51093-2001.12.09-11.35.57--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <Pine.GS0.4.33.0112091207150.23370-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Regarding the time stamp in Objects:

I think that is a mistake in the writing of the spec. APRSdos and I dont think any of the other original programs recognized a format without a time stamp. This is because unlike the @,/,= and ! formats which DO and DO-NOT have time stamps, the object format has no such sub-identifiers. Thus heuristics would have to be used to tell the difference and that was not our plan.

But once we moved the ";" to the front of the packet, then that DOES leave open the possibility of redefining the meaning of the "*" character which could then have other modifiers. But this would have to be a NEW ADDITION to the spec VERSION 2...

bob

On Sat, 8 Dec 2001, Jim Wagner wrote:

> The list has been a bit quiet for a while. Here is a question that may well
> have been answered previously, but lacking a searchable list archive, I
> can't seem to find the answer.
>
> On page 58 of the specification, it says: "An Object always has a timestamp."
>
> But, on the previous page, 3rd paragraph, it says: "Object Reports specify
> an Object's position, can have an optional timestamp, and can include"
>
> Which one of these is correct?

> Jim Wagner
> Oregon Research Electronics

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Dec 9 12:19:57 2001
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA23868
for <lyris.aprsspec@tapr.org>; Sun, 9 Dec 2001 12:19:52 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 9 Dec 2001 13:18:56 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: <bruninga@arctic>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: e: Timestamp in object message
Message-ID: <LYR11589-51108-2001.12.09-12.47.47--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.33.0112091317330.23370-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 9 Dec 2001, Pete Loveall AE5PL wrote:

> Isn't an Item an Object without a timestamp (basically)? javAPRS
> handles them the same, except that it expects a timestamp in an Object.

Ah yes. That is why we saw no need for the options under OBJECTS..
thaks for the refresher...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Dec 28 22:49:44 2001

Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id WAA20180
for <lyris.aprrspec@taprr.org>; Fri, 28 Dec 2001 22:49:41 -0600 (CST)
Message-ID: <LYR11589-53978-2001.12.28-23.18.31--
lyris.aprrspec#taprr.org@lists.taprr.org>
From: "Jerome M. Kutche" <n9lya@blueriver.net>
To: "APRS Spec Discussion List" <aprrspec@lists.taprr.org>
Cc: <w8akf@juno.com>, <SIMMONSVIGIL1@aol.com>,
"Duane Edmonson" <duaneedmonson@hotmail.com>
Subject: [aprrspec] Hi Speed Data ThroughPut Via Ham Radio!
Date: Fri, 28 Dec 2001 23:41:06 -0500
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_001C_01C18FF9.1E674E80"
X-Priority: 1
X-MSMail-Priority: High
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprrspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprrspec@lists.taprr.org>
List-Owner: <mailto:owner-aprrspec@lists.taprr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.taprr.org>
X-Message-Id: <002101c19023\$18866300\$81432bd1@mshome.net>
Sender: bounce-aprrspec-11589@lists.taprr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_NextPart_000_001C_01C18FF9.1E674E80
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<http://www.dandin.com/tdr900.html>

<http://www.taprr.org/taprr/html/taprrfhss.html>

Hi All Hams,

ISDN Speeds over ham packet radio...

Check out these two webpages... It sounds like the next phase of =
Amateur Digital Communications...

As far as building a nationwide Network.. Read on about it ... and =
consider the possibilities... they are talking of Internet Radio over =

Ham Radio... It seems it could be used for the present store and forward =
packet radio and work as one with that also???=20

I as an Amateur Radio Operator plan to follow this with much =
interest and quite possibly jump right in as it comes to be...
=20

I Urge all Hams to follow this with a watchful eye, and consider =
atleast stopping by the webpages and if you like what you see.. Let them =
know that there is much interest in their new project at TAPR....

I also urge all Ham Radio Clubs to pass this info on to its members, =
so we are ready to act when the time comes to both support and encourage =
the faster Digital Links...=20

Its time to Put RF back into Ham Radio...

Once it gets going either put up a high speed link in your area or =
urge your local Amateur radio Club to put up high speed links and or =
help support them in your area...

But above all please atleast follow the above links and inform as =
many Amateur Radio ops or soon to bees.. about the TAPR Project...!!!

Best 73 And Happy New Year!!!

Jerry kutche N9LYA
HHHCVP
TAPR and ARRL Member...
Sysop of W9QYQ's Ham Radio Packet Station=20

www.blueriver.net/~n9lya

n9lya@w9qyq.#sin.in.usa.noam

-----=_NextPart_000_001C_01C18FF9.1E674E80
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">

```
<META content=3D"MSHTML 5.50.4134.100" name=3DGENERATOR>  
<STYLE></STYLE>  
</HEAD>  
<BODY bgColor=3D#ffffff>  
<DIV><FONT face=3DArial size=3D2><A=20  
href=3D"http://www.dandin.com/tdr900.html">http://www.dandin.com/tdr900.h=  
tml</A></FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><A=20  
href=3D"http://www.tapr.org/tapr/html/taprfhss.html">http://www.tapr.org/=  
tapr/html/taprfhss.html</A></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2>Hi All Hams,</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;& ISDN Speeds over ham =  
packet=20  
radio...</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;& Check out these two=20  
webpages...&nbsp;&nbsp;& It sounds like the next phase of Amateur Digital=20  
Communications...</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;& As far as building a =  
nationwide=20  
Network.. Read on about it ... and consider the possibilities... they =  
are=20  
talking of Internet Radio over Ham Radio... It seems it could be used =  
for the=20  
present store and forward packet radio and work as one with that also??? =  
</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;& I as an Amateur =  
Radio Operator=20  
plan to follow this with much interest and quite possibly jump right in =  
as it=20  
comes to be...</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;& </FONT></DIV>  
<DIV><FONT face=3DArial size=3D2>&nbsp;&nbsp;&nbsp;&nbsp;& I Urge all Hams to =  
follow this=20  
with a watchful eye, and consider atleast stopping by the webpages and =  
if you=20  
like what you see.. Let them know that there is much interest in their =  
new=20  
project at TAPR....</FONT></DIV>  
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 1 16:25:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA18688
for <lyris.aprsspec@tapr.org>; Tue, 1 Jan 2002 16:25:33 -0600 (CST)
User-Agent: Microsoft-Entourage/9.0.2509
Date: Tue, 01 Jan 2002 17:23:59 -0500
Subject: [aprsspec] ADMIN: Happy New Year!
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-54547-2002.01.01-16.54.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B857A12E.603%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA18688

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topica≤ then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzepa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 3 19:18:02 2002
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA16504
 for <lyris.aprsspec@tapr.org>; Thu, 3 Jan 2002 19:18:01 -0600 (CST)
 User-Agent: Microsoft-Entourage/9.0.2509
 Date: Thu, 03 Jan 2002 20:17:19 -0500
 Subject: [aprsspec] ADMIN: Changes to this list
 From: Stan Horzepa <stanzepa@earthlink.net>
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 Message-ID: <LYR11589-54976-2002.01.03-19.46.40-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B85A6CCF.6F4%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Earlier today, I changed two of the options of this list:

1. Only subscribers to this list are now allowed to contribute messages to this list.
2. All new subscribers to this list must be approved by the administrator of this list.

Item 1 means that you can only send messages to the list from the email address that you subscribed with. If you are using a different email address to send messages to this list, you will have to subscribe with that email address, too. (If you do this, you can eliminate the duplicate receipt of messages from the list by setting one of your subscriptions to receive no mail from the list.)

Item 2 means more work for me, but that's why I get paid the big bucks for administrating this list.

I made these changes to APRSSIG last year and they eliminated the spam and other nonsense that the APRSSIG was experiencing. The changes should have the same effect here.

By the way, some may ask why I don't set up some filters to eliminate the problem, but that is not an option with the SIG software TAPR uses.

Thank you for your cooperation,

Stan, WA1LOU, Your List's Administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jan 18 06:50:46 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA28818
for <lyris.aprsspec@tappr.org>; Fri, 18 Jan 2002 06:50:41 -0600 (CST)
Message-ID: <LYR11589-57840-2002.01.18-07.20.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Mohamed bin Jabor Althani" <a71ey@qatar.net.qa>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>,
"AMSAT-BB" <amsat-bb@AMSAT.Org>
Subject: [aprsspec] PCSAT
Date: Fri, 18 Jan 2002 15:50:18 +0300
Organization: Amsat- Qatar
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <000b01c1a01e\$b01df1a0\$2cc54dd4@mohamedalthani>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi All
her PCSAT tlm 9600bud
time 12:37 UTC
locator LL55RJ N 25 24 16, E 051 25 23

PCSAT-12>GPSODS,SGATE:
 {F401149477435.69999913 +0.00 +0.00
C

PCSAT-12>GPSODS,SGATE:
 {F411149477434.99999913 60782.9392210
83055437.93 -6332.3+
PCSAT-12>GPSODS,SGATE:2222.851 5 20658469.67 -3958.05130
9213299.06 -11.797
PCSAT-12>GPSODS,SGATE:3.131 1 26033639.58 +5585.74125 23137028.09
+6266.88114
PCSAT-12>GPSODS,SGATE:
 {F401149477495.00000013 +3730368.14 +3331611.45

+5141651.03

PCSAT-12>GPSODS,SGATE:

{F411149477495.0000013 60842.9391610

22711726.08 -6023.9

PCSAT-12>GPSODS,SGATE: +0.001 5 20417081.41 -3610.75130 0.00
+0.00+

PCSAT-12>GPSODS,SGATE:0.001 1 26357902.86 +5695.61125 23503042.72
+6405.941144

PCSAT-12>BEACON,SGATE:T#282,132,137,141,118,213,00011011,0001,1

PCSAT-12>GPSODS,SGATE:

{F401149477525.0000013 +3752074.90 +3503613.20

+5010032.6E

PCSAT-12>GPSODS,SGATE:

{F431149477525.7131150 6144017121010 31843 305962c

629-20

PCSAT-12>GPSODS,SGATE:

{F431149477525.7131150 6144017121010 31843 305962c

629-200

PCSAT-12>GPSODS,SGATE:

{F401149477555.0000013 +3770957.23 +3672170.79

+4873558.2E

PCSAT-12>GPSODS,SGATE:

{F411149477555.0000013 60902.9391010

22346316.10 -5671.3+

PCSAT-12>GPSODS,SGATE:3155.601 5 20197062.27 -3242.02130 19240197.43
+933.474

PCSAT-12>GPSODS,SGATE:1.061 1 26687995.46 +5781.40125 23876539.68
+6519.13114

{F411149477555.0000013 60902.9391010

22346316.10 -5671.3+

PCSAT-12>GPSODS,SGATE:3155.601 5 20197062.27 -3242.02130 19240197.43
+933.474

PCSAT-12>GPSODS,SGATE:1.061 1 26687995.46 +5781.40125 23876539.68
+6519.131144

PCSAT-12>APRS3::BLN3PCSAT:www.ew.usna.edu/pcsat for details of operating

PCSAT-12>BEACON,SGATE:T#283,130,133,089,140,213,00011011,0010,1

PCSAT-12>GPSODS,SGATE:

{F401149477585.0000013 +3786903.82 +3837095.37

+4732328.64

PCSAT-12>GPSODS,SGATE:

{F431149477585.7131150 6144019121210 29836

287652F1829-190

PCSAT-12>GPS0DS,SGATE: -5194 -60081C10 4-15923-170962F14 9 27085

258702F1024 -94

Thank you

Mohamed - A71EY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 3 16:28:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA29431
for <lyris.aprsspec@tapr.org>; Sun, 3 Feb 2002 16:28:24 -0600 (CST)
User-Agent: Microsoft-Entourage/10.0.0.1309
Date: Sun, 03 Feb 2002 16:15:31 -0500
Subject: [aprsspec] ADMIN: Monthly Message with NEW stuff regarding subscription
maintenance
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-60855-2002.02.03-16.58.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B88312A3.1572%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA29431

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like >what kind of printer should I buy to print out my copy of the APRS specification?<) may be considered off-topic. If you start a message with >this is off-topic< then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

SUBSCRIPTION MAINTENANCE

You may make changes to your subscription (like change your email address, toggle on/off the digest mode, etc.) by logging into the APRS SPEC SIG at <http://www.tapr.org/cgi-bin/lyris.pl>

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC SIG.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 3 20:07:01 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA12136

for <lyris.aprsspec@tapr.org>; Sun, 3 Feb 2002 20:06:43 -0600 (CST)
Message-ID: <LYR11589-60920-2002.02.03-20.37.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "jabennett" <jabennett@sigecom.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] weather, part 1
Date: Sun, 3 Feb 2002 20:05:37 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
 boundary="-----_NextPart_000_0069_01C1ACEE.25B18770"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4910.0300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <006c01c1ad20\$73573ba0\$0701a8c0@lz130>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----_NextPart_000_0069_01C1ACEE.25B18770
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hello Everyone.

I am in the midst of completing the incorporation of APRS compatibility =
into my weather code (WXN). Before I get into this very deeply, let me =
say that the group has done a very good job in preparing the document. =
Also, understand that my primary interest is in the exchange of weather =
data. While I have done my best to understand how all of this works =
together so as to not cause any problems, I do not run any other APRS =
type of software here except my own. Please forgive any misconceptions.

I do have some questions, observations, and a couple of requests. These =
are not in any particular order. The original message was not accepted =
by the list server, and therefore has been split into two parts.

1. Although not stated in the protocol, every single APRS packet has a =
CR appended at the end (0x0d). I imagine this comes from the fact that =
the SENDPAC and CR parameters in the TNC firmware default to this. The =
beacon I implemented in the first release did not have a CR appended. =
The web based APRS sites seem to handle this just fine. However, some =

locals had problems seeing my station. Probably would not have noticed =
this except for the fact I am using the KISS interface rather than the =
standard user interface. Therefore, by the specs, I did not append a CR =
(this has since been corrected). Might want to consider adding this into =
the spec.

2. Chapter 12, p. 64: In the positionless weather report format boxed at =
the top of the page, it appears that the field length for barometric =
pressure is six, not five as shown. The length of all the others is the =
character ID plus the length of the numeric data.

3. Chapter 12, p. 66: Second example (compressed position, no timestamp) =
appears to have an extra character in the string (>). It is =
inconsistent when compared with the other examples on the same page and =
with the statement in chapter 9, p. 37 (length is fixed 13 characters). =
I have been monitoring packets for several days and have yet to see a =
compressed format, so can't compare this against anything real.

4. One would logically assume that wind speed would use the same units =
in all types of weather reports. However, if I abide strictly by the =
rules in the protocol, the examples on pp. 65-66 are using mixed units =
for wind speed (i.e., c.../s... is in knots and g... is in mph). The =
positionless report explicitly states that the speed in mph (p. 64). In =
accordance with the warning at the end of chapter 5, I used knots in the =
c.../s... section and mph for gusts. Since this behavior is =
inconsistent, to say the least, I think it would be worth noting this in =
the appropriate section of chapter 12.

5. In chapter 12, p. 63, the trailing field on the packet can be a 2-4 =
character field identifying the type of weather station. You have a =
number of types already defined. My code supports some additional =
stations not listed. I have added identifiers for stations not listed, =
and also some alternates. This seems to be consistent with what I have =
observed on the air. I will still occasionally get a wx packet in which =
the wx station cannot be identified. I was wondering if there is an =
updated list, and/or do you want to know what identifiers I have added?

6. Again, in chapter 12, p. 63, the next to the last field is the =
software identifier. I have elected to use lower case 'n' for my code. =
If there are future revisions, would you consider adding this to your =
list?

continued in part 2...

```
-----=_NextPart_000_0069_01C1ACEE.25B18770
Content-Type: text/html;
    charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 5.50.4912.300" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV><FONT face=3DArial size=3D2>
<DIV><FONT face=3DArial size=3D2>Hello Everyone.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>I am in the midst of completing the =
incorporation=20
of APRS compatibility into my weather code (WXN). Before I get into this =
very=20
deeply, let me say that the group has done a very good job in preparing =
the=20
document.&nbsp;<FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
document.&nbsp;<FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
exchange of=20
weather data. While I have done my best to understand how all of this =
works=20
together so as to not cause any problems, I do not run any other APRS =
type of=20
software here except my own. Please forgive any =
misconceptions.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>I do have some questions, observations, =
and a=20
couple of requests. These are not in any particular order. The original =
message=20
was not accepted by the list server, and therefore has been split into =
two=20
parts.</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>1. Although not stated in the protocol, =
every=20
single APRS packet has a CR appended at the end ( 0x0d ). I imagine this =
comes=20
from the fact that the SENDPAC and CR parameters in the TNC firmware =
default to=20
this. The beacon I&nbsp;<FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
CR=20
appended. The web based APRS sites seem to handle this just fine. =
However, some=20
locals had problems seeing my station. Probably would not have noticed =
this=20
except for the fact I am using the KISS interface rather than the =
```

standard user=20
interface. Therefore, by the specs, I did not append a CR (this has =
since been=20
corrected). Might want to consider adding this into the =
spec.</DIV>
<DIV> </DIV>
<DIV>2. Chapter 12, p. 64: In the =
positionless weather=20
report format boxed at the top of the page, it appears that the field =
length for=20
barometric pressure is six, not five as shown. The length of all the =
others is=20
the character ID plus the length of the numeric data.</DIV>
<DIV> </DIV>
<DIV>3. Chapter 12, p. 66: Second example =
(compressed=20
position, no timestamp) appears to have an extra character in the string =
(>=20
>). It is inconsistent when compared with the other examples on the same =
page and=20
with the statement in chapter 9, p. 37 (length is fixed 13 characters). =
I have=20
been monitoring packets for several days and have yet to see a =
compressed=20
format, so can't compare this against anything real.</DIV>
<DIV> </DIV>
<DIV>4. One would logically assume that wind =
speed would=20
use the same units in all types of weather reports. However, if I abide =
strictly=20
by the rules in the protocol, the examples on pp. 65-66 are using mixed =
units=20
for wind speed (i.e., c.../s... is in knots and g... is in mph). The=20
positionless report explicitly states that the speed in mph (p. 64). In=20
accordance with the warning at the end of chapter 5, I used knots in the =
c.../s... section and mph for gusts. Since this behavior is =
inconsistent,=20
to say the least, I think it would be worth noting this in the =
appropriate=20
section of chapter 12.</DIV>
<DIV> </DIV>
<DIV>5. In chapter 12, p. 63, the trailing =
field on the=20
packet can be a 2-4 character field identifying the type of weather =
station. You=20
have a number of types already defined. My code supports some additional =

stations not listed. I have added identifiers for stations not listed, =
and also=20
some alternates. This seems to be consistent with what I have observed =
on the=20
air. I will still occasionally get a wx packet in which the wx station =
cannot be=20
identified. I was wondering if there is an updated list, and/or do you =
want to=20
know what identifiers I have added?</DIV>
<DIV> </DIV>
<DIV>6. Again, in chapter 12, p. 63, the =
next to the=20
last field is the software identifier. I have elected to use lower case =
'n' for=20
my code. If there are future revisions, would you consider adding this =
to your=20
list?</DIV>
<DIV> </DIV>
<DIV>continued in part 2...</DIV></DIV></BODY></HTML>

-----=_NextPart_000_0069_01C1ACEE.25B18770--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 3 20:07:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA12453
for <lyris.aprsspec@tapr.org>; Sun, 3 Feb 2002 20:07:43 -0600 (CST)
Message-ID: <LYR11589-60921-2002.02.03-20.38.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "jabennett" <jabennett@sigecon.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] weather, part 2
Date: Sun, 3 Feb 2002 20:06:42 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----=_NextPart_000_007A_01C1ACEE.4C6A18A0"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4910.0300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <007f01c1ad20\$9a0fccd0\$0701a8c0@lzl130>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

This is a multi-part message in MIME format.

-----=_NextPart_000_007A_01C1ACEE.4C6A18A0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

continued from part 1...

7. My code has been around since 1990. As such, it has used the =
connected network as a means of exchanging data between the different =
servers. I want to add the capability to APRS. The purpose of these data =
packets is allow other WXN servers running APRS to receive the complete =
dataset, which far exceeds what APRS natively supports at the present. =
There appears to be two options available: Telemetry Data as described =
in chapter 13 and the User-Defined Data Format in chapter 18. I decided =
against the telemetry mode, mainly due to the restriction of 3 =
characters for a value. In some cases, I have values that are ten digits =
long. The User-Defined mode seems best suited for my purposes. At this =
point, I have an alpha version that I am about to begin debugging that =
uses ASCII comma delimited data with group separators. Currently, I have =
two defined packet types, each less than 200 bytes (excluding the 3-byte =
APRS header). I have been unable to find the web site described in the =
document that shows what the defined user IDs are. On the TAPR site, =
clicking on the "Working Group" takes you to APRS Spec page. I assume =
that my request for a "User-Defined Packet Type" character should go to =
this group. I can furnish what the packet types, data fields and groups =
are, if so requested. Once I release the version that incorporates this, =
the format will be published on my web site.

8. Chapter 20, p.93 discusses the use of the SSID in the source address. =
In all the packets currently used, the information field contains the =
APRS symbol for weather, therefore overriding anything else. However, =
the user-defined packet does not seem to provide for the use of the APRS =
symbol. Is the source-address SSID ignored for the purpose of =
determining an appropriate symbol with a user defined packet? If it must =
be imbedded in the user-defined packet to avoid the problem, is it =
position independent? Failing that must the symbol be placed into the =
destination address? Or perhaps, just ignore this?

9. On p. 14 (chapter 4), the last section deals with APRS Software =
Version number. I have adopted the string 'WXNxxx' where 'xxx' =

represents the current version number (in light of item #8 above this =
may need to be modified to avoid the symbol problem). This seems =
consistent with what I have observed on the air and what's in the spec. =
If there is no problem with this, I would like to have my identifier =
added to the list on the next revision.

73,
John Bennett
n4xi
<http://members.sigecom.net/jabennett/wxn>

-----=_NextPart_000_007A_01C1ACEE.4C6A18A0
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 5.50.4912.300" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
<DIV>
<DIV><FONT face=3DArial size=3D2>continued from part 1...</FONT></DIV>
<DIV><FONT face=3DArial size=3D2></FONT>&nbsp;</DIV>
<DIV><FONT face=3DArial size=3D2>7. My code has been around since 1990. =
As such, it=20
has used the connected network as a means of exchanging data between the =

different servers. I want to add the capability to APRS. The purpose of =
these=20
data packets is allow other WXN servers running APRS to receive the =
complete=20
dataset, which far exceeds what APRS natively supports at the present. =
There=20
appears to be two options available: Telemetry Data as described in =
chapter 13=20
and the User-Defined Data Format in chapter 18. I decided against the =
telemetry=20
mode, mainly due to the restriction of 3 characters for a value. In some =
cases,=20
I have values that are ten digits long. The User-Defined mode seems best =
suited=20
for my purposes. At this point, I have an alpha version that I am about =
to begin=20
```

debugging that uses ASCII comma delimited data with group separators. =
Currently,=20
I have two defined packet types, each less than 200 bytes (excluding the =
3-byte=20
APRS header). I have been unable to find the web site described in the =
document=20
that shows what the defined user IDs are. On the TAPR site, clicking on =
the=20
"Working Group" takes you to APRS Spec page. I assume that my =
request=20
for a "User-Defined Packet Type" character should go to this group. I =
can=20
furnish what the packet types, data fields and groups are, if so =
requested. Once=20
I release the version that incorporates this, the format will be =
published on my=20
web site.</DIV>
<DIV> </DIV>
<DIV>8. Chapter 20, p.93 discusses the use =
of the SSID=20
in the source address. In all the packets currently used, the =
information field=20
contains the APRS symbol for weather, therefore overriding anything =
else. </DIV>
However, the user-defined packet does not seem to provide for the use of =
the=20
APRS symbol. Is the source-address SSID ignored for the purpose of =
determining=20
an appropriate symbol with a user defined packet? If it must be imbedded =
in the=20
user-defined packet to avoid the problem, is it position independent? =
Failing=20
that must the symbol be placed into the destination address? Or perhaps, =
just=20
ignore this?</DIV>
<DIV> </DIV>
<DIV>9. On p. 14 (chapter 4), the last =
section deals=20
with APRS Software Version number. I have adopted the string 'WXNxxx' =
where=20
'xxx' represents the current version number (in light of item #8 above =
this may=20
need to be modified to avoid the symbol problem). This seems consistent =
with=20
what I have observed on the air and what's in the spec. If there is no =
problem=20
with this, I would like to have my identifier added to the list on the =
next=20

revision.</DIV>
<DIV> </DIV>
<DIV> </DIV>
<DIV>73,</DIV>
<DIV>John Bennett</DIV>
<DIV>n4xi</DIV>
<DIV><A=20
href=3D"http://members.sigecom.net/jabennett/wxn">http://members.sigecom.=
net/jabennett/wxn</DIV></DIV></BODY></HTML>

-----=_NextPart_000_007A_01C1ACEE.4C6A18A0--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 3 20:13:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA12976
for <lyris.aprsspec@tapr.org>; Sun, 3 Feb 2002 20:13:06 -0600 (CST)
Message-Id: <LYR11589-60926-2002.02.03-20.43.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Sun, 03 Feb 2002 21:16:46 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: weather, part 1
In-Reply-To: <LYR11608-60920-2002.02.03-20.37.10--dvanhorn#cedar.net@lis
ts.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <5.1.0.14.2.20020203211436.024f07b0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Is there any provision for "no sensor"?
I have seen a lot of weather output where it is obvious that there is
either no sensor, or a drastic error (air pressure 0.0mB)
This was one point that Dr Arnold commented on when I walked him through WAPRS.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Feb 3 21:04:50 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA14774
for <lyris.aprsspec@tapr.org>; Sun, 3 Feb 2002 21:04:50 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 3 Feb 2002 22:04:06 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: weather, part 1
In-Reply-To: <LYR11586-60926-2002.02.03-20.43.34--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-60930-2002.02.03-21.35.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.44.0202032203230.1004-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 3 Feb 2002, David VanHorn wrote:

> Is there any provision for "no sensor"?

Yes, omit the field. Only the wind speed and direction and TEMP are
actually required (I think)...

At least that was what the original APRSdos did//

bob

> I have seen a lot of weather output where it is obvious that there is
> either no sensor, or a drastic error (air pressure 0.0mB)
> This was one point that Dr Arnold commented on when I walked him through WAPRS.

>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Feb 4 17:19:05 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03114
for <lyris.aprsspec@tappr.org>; Mon, 4 Feb 2002 17:19:03 -0600 (CST)
Message-Id: <LYR11589-61175-2002.02.04-17.49.30--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 04 Feb 2002 18:22:26 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Another kind of weather
In-Reply-To: <LYR11608-60930-2002.02.03-21.35.15--dvanhorn#cedar.net@lists.tappr.org>
References: <LYR11586-60926-2002.02.03-20.43.34--
bruninga#nadm.navy.mil@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <5.1.0.14.2.20020204182103.025f3c00@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

<http://www.dvanhorn.org/rads.png>

This interfaces through a serial port, and APRS stations have the infrastructure to collect some possibly useful data.
Is there a hole in the spec that it can wedge into?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 4 17:22:38 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03519
for <lyris.aprsspec@tapr.org>; Mon, 4 Feb 2002 17:22:32 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 4 Feb 2002 18:21:55 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Another kind of weather
In-Reply-To: <5.1.0.14.2.20020204182103.025f3c00@mail.cedar.net>
Message-ID: <LYR11589-61176-2002.02.04-17.53.07--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.44.0202041820450.2531-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I dont have a clue what you are talking about. Is this radiation?
I looked at the plot and all I can guess is that CPM could be counts per minute and RADS are radiation, but I have no clue what the unit of mesure of Muncie is...

Tell me more..

Bob

On Mon, 4 Feb 2002, David VanHorn wrote:

>
> <http://www.dvanhorn.org/rads.png>
>
> This interfaces through a serial port, and APRS stations have the
> infrastructure to collect some possibly useful data.
> Is there a hole in the spec that it can wedge into?
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 4 17:29:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA04146
for <lyris.aprsspec@tapr.org>; Mon, 4 Feb 2002 17:29:02 -0600 (CST)
Message-Id: <LYR11589-61177-2002.02.04-17.59.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 04 Feb 2002 18:32:43 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Another kind of weather
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <Pine.GS0.4.44.0202041820450.2531-100000@arctic>
References: <5.1.0.14.2.20020204182103.025f3c00@mail.cedar.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <5.1.0.14.2.20020204182802.02f47590@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 06:21 PM 2/4/02 -0500, Bob Bruninga wrote:

>I dont have a clue what you are talking about. Is this radiation?
>I looked at the plot and all I can guess is that CPM could be counts per
>minute and RADS are radiation, but I have no clue what the unit of mesure
>of Muncie is...

It's counts per minute, here in muncie indiana.
The detector is sitting on my desk at the moment, but I have plans for an
outdoor mounting that will be less shielded by the house.
Of course the house doesn't offer much shielding from gammas.

I plan to give it a view of the ground, from about 5', sort of like a
thermometer shield.

I could see this being useful if there was any sort of radiological event,
either deliberate, or accidental. Knowing where the plumes are, would be
helpful.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 4 18:47:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA09206
for <lyris.aprsspec@tapr.org>; Mon, 4 Feb 2002 18:47:45 -0600 (CST)
Message-Id: <LYR11589-61198-2002.02.04-19.18.20--
lyris.aprsspec@tapr.org>
X-Sender: dvanhorn@mail.cedar.net
Date: Mon, 04 Feb 2002 19:51:39 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Another kind of weather
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
In-Reply-To: <Pine.GS0.4.44.0202041942400.4550-1000000@arctic>
References: <5.1.0.14.2.20020204182802.02f47590@mail.cedar.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <5.1.0.14.2.20020204194951.02375910@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 07:42 PM 2/4/02 -0500, Bob Bruninga wrote:

>Wow, neat!
>How much, wwwhere, etc?

About 150, www.blackcatsystems.com

It's a nice simple box, just plug into a serial port.
I'm using it through a USB serial port now.
Software's pretty basic, but it's doing the job.
You have to install quick time 4.0 to make the pictures.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Feb 11 01:01:51 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id BAA03039
for <lyris.aprsspec@tappr.org>; Mon, 11 Feb 2002 01:01:46 -0600 (CST)
Message-Id: <LYR11589-62358-2002.02.11-01.32.27--
lyris.aprsspec@tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sun, 10 Feb 2002 23:01:09 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Ultimeter decoding
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <l03130301b88d1c59bc5d@[198.145.248.51]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello APRS Spec people -

For some reason, there is no description of the Ultimeter weather station decoding in the APRS spec. Where would one find that little detail?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Feb 25 20:13:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA25518
for <lyris.aprsspec@tapr.org>; Mon, 25 Feb 2002 20:12:53 -0600 (CST)
Message-ID: <LYR11589-65369-2002.02.25-20.44.24--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "jabennett" <jabennett@sigecom.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "Dwight Hazen" <hazen@indiana.edu>, "James Smith" <k9apr@kiva.net>
Subject: [aprsspec] Request for User Defined Character ID
Date: Mon, 25 Feb 2002 20:12:04 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0084_01C1BE38.B13AC7B0"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4910.0300
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <008701c1be6a\$ff0ff050\$0701a8c0@lzl30>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

This is a multi-part message in MIME format.

-----=_NextPart_000_0084_01C1BE38.B13AC7B0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

While this was covered in a message sent to the group on 04 February (to = which no one has yet replied), I need a "User-Defined Packet Type" = character for the two defined packet types of weather data that my code = will use. In the interim, I have decided to release the new version with = the generic character "{" and provide a configuration parameter to = change this once an assignment by the group has been made. If you want = more information on the data in the packets, go to

<http://members.sigecom.net/jabennett/wxn/types.htm>

The above listed page is not linked to on my site, since it contains = preliminary information. The main web site is accessed at the URL under = my signature at the bottom of this email. There is also a link on the = bottom of the above page.

While the other issues covered in the original two-part message can = wait, I feel this one needs attention to avoid problems with any other = developer that might be using the generic ID character. Thanks in = advance for your help in this matter.

73,
John Bennett
n4xi
<http://members.sigecom.net/jabennett/wxn>

-----=_NextPart_000_0084_01C1BE38.B13AC7B0
Content-Type: text/html;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN">
<HTML><HEAD>
<META http-equiv=3DContent-Type content=3D"text/html; =
charset=3Diso-8859-1">
<META content=3D"MSHTML 5.50.4913.1100" name=3DGENERATOR>
<STYLE></STYLE>
</HEAD>
<BODY bgColor=3D#ffffff>
```

<DIV>
<DIV>While this was covered in a message =
sent to the=20
group on 04 February (to which no one has yet replied), I need a =
"User-Defined=20
Packet Type" character for the two defined packet types of weather data =
that my=20
code will use. In the interim, I have decided to release the new version =
with=20
the generic character "{" and provide a configuration parameter to =
change this=20
once an assignment by the group has been made. If you want more=20
information on the data in the packets, go to</DIV>
<DIV> </DIV>
<DIV> </DIV></DIV><A=20
href=3D"http://members.sigecom.net/jabennett/wxn/types.htm">http://member=
s.sigecom.net/jabennett/wxn/types.htm</DIV>
<DIV> </DIV>
<DIV>The above listed page is not linked to on my site, since it =
contains=20
preliminary information. The main web site is accessed at the URL under =
my=20
signature at the bottom of this email. There is also a link on the =
bottom of the=20
above page.</DIV>
<DIV> </DIV>
<DIV>While the other issues covered in the original two-part message can =
wait, I=20
feel this one needs attention to avoid problems with any other developer =
that=20
might be using the generic ID character. Thanks in advance for your help =
in this=20
matter.</DIV>
<DIV> </DIV>
<DIV>73,</DIV>
<DIV>John Bennett</DIV>
<DIV>n4xi</DIV>
<DIV><A=20
href=3D"http://members.sigecom.net/jabennett/wxn">http://members.sigecom.=
net/jabennett/wxn</DIV>
<DIV> </DIV>
<DIV> </DIV></DIV></BODY></HTML>

-----_NextPart_000_0084_01C1BE38.B13AC7B0--

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 1 19:13:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA13937
for <lyris.aprsspec@tapr.org>; Fri, 1 Mar 2002 19:13:37 -0600 (CST)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Fri, 01 Mar 2002 20:13:07 -0500
Subject: [aprsspec] ADMIN: Monthly Message
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-66087-2002.03.01-19.45.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B8A59153.2241%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA13937

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.

- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topic≤ then you are violating this rule.

- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)
- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

SUBSCRIPTION MAINTENANCE

You may make changes to your subscription (like change your email address, toggle on/off the digest mode, etc.) by logging into the APRS SPEC SIG at <http://www.tapr.org/cgi-bin/lyris.pl>

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC SIG.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 15 11:10:14 2002
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17716
 for <lyris.aprsspec@tapr.org>; Fri, 15 Mar 2002 11:10:09 -0600 (CST)
 Date: Fri, 15 Mar 2002 09:02:14 -0800
 From: "Dana H. Myers" <k6jq@arrl.net>

Subject: [aprsspec] address field in messages/directed queries
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-id: <LYR11589-68665-2002.03.15-11.39.01--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7bit
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:0.9.4)
Gecko/20011128 Netscape6/6.2.1
X-Accept-Language: en-us
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3C922916.6060708@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I've seen a few messages that of the form:

:K6JQ- :message

Where there's a dangling '-' at the the end of the address. My prototype code enforces AX.25 address rules rather strictly and considers a dangling dash an error. What do other implementations of APRS do? Obviously, there's at least one implementation that's permitting (what appear to be) ill-formed addresses here.

Dana K6JQ
k6jq@arrl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Mar 15 11:30:44 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19120
for <lyris.aprsspec@tappr.org>; Fri, 15 Mar 2002 11:30:44 -0600 (CST)

Date: Fri, 15 Mar 2002 11:25:01 -0600
Message-Id: <LYR11589-68671-2002.03.15-12.00.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: address field in messages/directed queries
X-IPAddress: 156.99.90.179
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200203151725.LAA20296@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Dana,

The message addressee does not have to be a valid AX.25 callsign, or even a valid amateur callsign. It can be any 10 character alpha numeric string. Bulletins are the most common message that is not addressed to a callsign, but specialized services like e-mail and callbook lookup also use this property.

Good luck!

-James Jefferson KB0THN

PS - Does Lyris *have* to be set to such an incredibly low limit on quoted lines?
Darn annoying.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 15 12:29:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA23299
for <lyris.aprsspec@tapr.org>; Fri, 15 Mar 2002 12:29:27 -0600 (CST)
Message-Id: <LYR11589-68693-2002.03.15-13.01.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 15 Mar 2002 12:28:13 -0600
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: address field in messages/directed queries
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <iss.44dc.3c923d3d.bcdcf.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Am I correct in believing that no specification of the APRS Internet data stream exists?

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 15 13:05:40 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA25605
for <lyris.aprsspec@tapr.org>; Fri, 15 Mar 2002 13:05:36 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 15 Mar 2002 14:05:11 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: address field in messages/directed queries
In-Reply-To: <LYR11586-68665-2002.03.15-11.39.01--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-68699-2002.03.15-13.37.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0203151400260.6763-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 15 Mar 2002, Dana H. Myers wrote:

> I've seen a few messages that of the form:
>
> :K6JQ- :message
>
> Where there's a dangling '-' at the the end of the
> address. My prototype code enforces AX.25 address rules
> rather strictly and considers a dangling dash an error.
> What do other implementations of APRS do? Obviously,
> there's at least one implementation that's permitting
> (what appear to be) ill-formed addresses here.

APRS has a 9 character "CALL, ADDRESS, or NAME" field. But only
callsigns or names used over RF have the limitations of the SSID
construct. Objects do not.

In order for an APRS message to be recognized by an ON-AIR TNC using
AX.25, yes, the message TOCALL must be AX.25 compliant.

But I dont immediatly see why such a restriction needs to be enforced on
the message TOFIELD. An example exception is the use of a Bulletin group
of the name AMSAT for example. A bulletin to the bulletin group would be
BLN#AMSAT

Bob

>
> Dana K6JQ
> k6jq@arrl.net
>
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 15 13:10:40 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA25888
for <lyris.aprsspec@tapr.org>; Fri, 15 Mar 2002 13:10:34 -0600 (CST)
Date: Fri, 15 Mar 2002 13:10:07 -0600
Message-Id: <LYR11589-68700-2002.03.15-13.42.49--
lyris.aprsspec@tapr.org>
From: "James Jefferson" <jjeffers@deskmedia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: aprsspec@lists.tapr.org
Subject: [aprsspec] Re: address field in messages/directed queries
X-IPAddress: 156.99.90.179
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <200203151910.NAA15609@dm.deskmedia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Correct. Want to work on it!?!? <http://aprsinet.sourceforge.net/>

-James Jefferson

> Am I correct in believing that no specification of the APRS Internet
> data stream exists?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Mar 15 15:12:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA04350

for <lyris.aprsspec@tapr.org>; Fri, 15 Mar 2002 15:12:42 -0600 (CST)
Date: Fri, 15 Mar 2002 13:12:18 -0800
From: "Dana H. Myers" <k6jq@arrl.net>
Subject: [aprsspec] Re: address field in messages/directed queries
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Message-id: <LYR11589-68747-2002.03.15-15.45.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7bit
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:0.9.4)
Gecko/20011128 Netscape6/6.2.1
X-Accept-Language: en-us
References: <LYR28303-68699-2002.03.15-13.37.48--k6jq#arrl.net@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3C9263B2.9030500@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>>>>On Fri, 15 Mar 2002, Dana H. Myers wrote:
>>
>>>>>>>I've seen a few messages that of the form:
>>>>>>>>>K6JQ- :message
>>>>>>>>>Where there's a dangling '-' at the the end of the
>>>>>>>>>address.
>>>>
>
>>>>APRS has a 9 character "CALL, ADDRESS, or NAME" field. But only
>>>>callsigns or names used over RF have the limitations of the SSID
>>>>construct. Objects do not.
>>
This is my interpretation of the spec, as well, with perhaps a slight
difference when it comes to "over RF"...

>>>>In order for an APRS message to be recognized by an ON-AIR TNC using
>>>>AX.25, yes, the message TOCALL must be AX.25 compliant.
>>

... I don't limit my thinking to an "on the air TNC" here. If the address field of the message is ever going to be compared to an AX.25 address, on the air or not, I believe it needs to be compliant. I tend to suspect you're saying the same thing but using the phrase "on the air" to clearly delineate the difference between an AX-25 address that *could* be used in the address field of an AX.25 frame and an arbitrary 9-character string.

> But I don't immediately see why such a restriction needs to be enforced on
> the message TOFIELD.

Neither do I. I'm asking about the case of where an address field is clearly intended for matching against an AX.25 address and contains a dangling dash. I think it's always clearly an error but apparently there's at least some software that tolerates it in a relative safe way.

Thanks!
Dana K6JQ
k6jq@arrl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 16 16:03:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA26338
for <lyris.aprsspec@tapr.org>; Sat, 16 Mar 2002 16:03:03 -0600 (CST)
Date: Sat, 16 Mar 2002 17:00:42 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] APRS1.01 document
In-reply-to: <LYR11608-68747-2002.03.15-15.45.04--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69022-2002.03.16-16.34.36--lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
References: <LYR28303-68699-2002.03.15-13.37.48--k6jq#arrrl.net@lists.taprr.org>
List-Unsubscribe: <mailto:leave-aprrsspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprrsspec@lists.taprr.org>
List-Owner: <mailto:owner-aprrsspec@lists.taprr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.taprr.org>
X-Message-Id: <5.1.0.14.2.20020316165959.01e46330@mail.cedar.net>
Sender: bounce-aprrsspec-11589@lists.taprr.org
Precedence: bulk

Is this current, and if there are errata, where do I find them?

You are currently subscribed to aprrsspec as: lyris.aprrsspec@taprr.org
To unsubscribe send a blank email to leave-aprrsspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: waillou@taprr.org

From bounce-aprrsspec-11589@lists.taprr.org Sat Mar 16 19:58:27 2002
Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id TAA11842
for <lyris.aprrsspec@taprr.org>; Sat, 16 Mar 2002 19:58:23 -0600 (CST)
Date: Sat, 16 Mar 2002 20:57:20 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprrsspec] Re: APRS1.01 document Weather packets
In-reply-to: <LYR11608-69022-2002.03.16-16.34.36--dvanhorn#cedar.net@lists.taprr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprrsspec@lists.taprr.org>
Message-id: <LYR11589-69066-2002.03.16-20.29.44--lyris.aprrsspec#taprr.org@lists.taprr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
References: <LYR28303-68699-2002.03.15-13.37.48--k6jq#arrrl.net@lists.taprr.org>
List-Unsubscribe: <mailto:leave-aprrsspec-11589P@lists.taprr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprrsspec@lists.taprr.org>
List-Owner: <mailto:owner-aprrsspec@lists.taprr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.taprr.org>
X-Message-Id: <5.1.0.14.2.20020316202131.01c123c0@mail.cedar.net>
Sender: bounce-aprrsspec-11589@lists.taprr.org
Precedence: bulk

Looking through the spec, trying to determine what sort of weather packets my new mobile weather thingy should send out..

I see five data type identifiers, !, #, \$, * and _
I'm not an Ultimiter or peet, so that leaves me with _ which is positionless. (you hafta be a big boy to send positions?)

The next paragraph seems to tell me that I could also use !, =, / or @, (note that ! is used above already, seems ambiguous), but I am not given any rationale to make a particular choice. They are identified as "position data type identifiers". A quick scan through the document does not turn up where these are defined, so I'm still in the dark.

Anyway, proceeding.

Positionless reporting seems a bad idea for a mobile weather station, skip that.

The next one that pops up, is a "complete weather report with timestamp and position". It does seem to me, that along with weather observations, it would be useful to know where, and when those observations were made, so this looks like a good candidate.

The first format shown is for a "complete weather report with timestamp and position", lacking a timestamp. (hmm...) Skipped.

The second looks better, in that all the pieces are present.
So:

Field 1: 1 char / or @ (How do I decide?)

Field 2: 7 char, "DHM/HMS" No idea what this means. The example data is not interpreted, so I'm left with trying to parse "092345z" Does this mean 09:23:45 Zulu? or 9th of the month, 23:45 Zulu?, or some other thing?
If the time is not zulu, then what do I put in place of the Z?
If it always must be zulu, then why is the Z there?
What happened to the slash?

Field 3: 8 char Lat: fine, no problem.

Field 4: 1 char Sym table ID ??? (Does this mean the icon?)

Field 5: 9 char Long: Fine, no problem.

Field 6: Symbol code ???

Field 7: 7 char, wind dir and speed (as opposed to "weather data?")

Field 8: variable, weather data

I assume, though I am not told anywhere, that this is a frame that I build from the sensors and data I have to send, in the format presented under "Positionless Weather Data", except that the wind direction and speed were already done in the previous field, and not required here.

Field 9 1 char APRS software

Field 10 2-4 chars Weather unit

Both of these fields are shown as optional, yet if field 10 is missing, then how can you parse it? If you have three chars at this point, is it APRS software and two chars of wx unit, or is it three chars of wx unit? Bad design here, the two variable length fields should have been placed together, since I can deterministically locate the end of the weather data, and the end of the packet.

But it isn't, so what DO I do with these, given that I'm not running any APRS software, and I'd like to send an "AVR" identifier?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 16 20:02:44 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA12087
for <lyris.aprsspec@tapr.org>; Sat, 16 Mar 2002 20:02:41 -0600 (CST)
Date: Sat, 16 Mar 2002 21:02:39 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <LYR11608-69066-2002.03.16-20.29.44--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69068-2002.03.16-20.34.58--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
References: <LYR28303-68699-2002.03.15-13.37.48--k6jq#arrl.net@lists.tapr.org>

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <5.1.0.14.2.20020316210216.01df06d0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 08:57 PM 3/16/2002 -0500, David VanHorn wrote:

Sorry, that should have been:

>yet if field <9> is missing, then how can you parse it?

--

Dave's Engineering Page: <http://www.dvanhorn.org>

Got a need to read Bar codes? <http://www.barcodechip.com>
Bi-directional read of UPC-A, UPC-E, EAN-8, EAN-13, JAN, and Bookland, with
two or five digit supplemental codes, in an 8 pin chip, with NO external parts.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 16 20:16:27 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA12679
for <lyris.aprsspec@tapr.org>; Sat, 16 Mar 2002 20:16:25 -0600 (CST)
Date: Sat, 16 Mar 2002 21:16:29 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <Pine.GS0.4.44.0203162108080.15786-100000@arctic>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69073-2002.03.16-20.48.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
<LYR11586-69066-2002.03.16-20.29.44--bruninga#nadm.navy.mil@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <5.1.0.14.2.20020316211604.01df0330@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 09:09 PM 3/16/2002 -0500, Bob Bruninga wrote:

>For a mobile it is easy. It should be a position weather packet like
>this:
>
>@DDHHMMzLAT/LONG_weatherdata goes here....
>
>This way in a single packet with time stamp you have the position and the
>weather data.. all in only one packet.

Ok, I got that figured, but what about the other parts?

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Mar 17 08:34:00 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA27580
for <lyris.aprsspec@tappr.org>; Sun, 17 Mar 2002 08:33:56 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 17 Mar 2002 09:33:31 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
Message-ID: <LYR11589-69186-2002.03.17-09.06.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.44.0203170923160.28329-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sat, 16 Mar 2002, David VanHorn asked about a Mobile WX station:

> I see five data type identifiers, !, #, \$, * and _

> The next paragraph seems to tell me that I could also use !, =, / or @,
> (note that ! is used above already, seems ambiguous), but I am not given
> any rationale to make a particular choice.

For a mobile it is easy. Use a position weather packet like this:

@DDHHMMzLAT/LONG_weatherdata goes here....software identifier

This way in a single packet with time stamp you have the position and the weather data.. all in only one packet. Put an ID on the end to indicate whatkind of software you are using..

> Field 2: 7 char, "DHM/HMS"

Day hours minutes

> Field 4: 1 char Sym table ID ??? (Does this mean the icon?)

This must be the "/" primary symbol table to get the Weather icon.

> Field 6: Symbol code ???

This must be the "_" Weather Icon

> Field 7: 7 char, wind dir and speed (as opposed to "weather data?")

Wind direction and speed are part of the weather data you want to report.

> Field 8: variable, weather data

> I assume, though I am not told anywhere, that this is a frame that I build
> from the sensors and data I have to send, in the format presented under
> "Positionless Weather Data", except that the wind direction and speed were
> already done in the previous field, and not required here.

Yes.

> Field 9 1 char APRS software Field 10 2-4 chars Weather unit Both of
> these fields are shown as optional, yet if field 10 is missing, then how
> can you parse it?

Doesnt matter. If you dont care about what kind of wx station it is,
then no need to parse that field..

> But it isn't, so what DO I do with these, given that I'm not running any
> APRS software, and I'd like to send an "AVR" identifier?

Maybe use 0 for other and AVR for the identifier...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 08:36:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA27936
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 08:36:04 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 17 Mar 2002 09:34:47 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-Reply-To: <5.1.0.14.2.20020316211604.01df0330@mail.cedar.net>
Message-ID: <LYR11589-69187-2002.03.17-09.08.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0203170933540.28329-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 16 Mar 2002, David VanHorn wrote:

> >@DDHHMMzLAT/LONG_weatherdata goes here....
> >
> >This way in a single packet with time stamp you have the position and the
> >weather data.. all in only one packet.
>
> Ok, I got that figured, but what about the other parts?

They should be as shown in the spec. I havent looked recently, but it should be obvious...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 11:19:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06692
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 11:19:43 -0600 (CST)
Date: Sun, 17 Mar 2002 12:20:06 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <LYR11608-69187-2002.03.17-09.08.07--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69213-2002.03.17-11.52.08--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
References: <5.1.0.14.2.20020316211604.01df0330@mail.cedar.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <5.1.0.14.2.20020317121926.01e890c0@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>They should be as shown in the spec. I havent looked recently, but it
>should be obvious...
>
>de WB4APR@amsat.org, Bob

I agree that it should be obvious, even to someone who does not live and

breathe it.
Unfortunately, it wasn't.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 11:27:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06842
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 11:27:05 -0600 (CST)
Date: Sun, 17 Mar 2002 12:27:25 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <LYR11608-69186-2002.03.17-09.06.12--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69214-2002.03.17-11.59.29--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <5.1.0.14.2.20020317122011.02079778@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
> > Field 2: 7 char, "DHM/HMS"
>
>Day hours minutes

What I see, looks like HMS in Zulu time, but that dosen't match the field description at all.. If the left pair of digits were "31" then it would be obvious that it's DHM.

But then I am left with confusion over the "DHM/HMS" which implies that I can use either one. That can't be true though, since you'd have no way to know how to parse it.

> > Field 7: 7 char, wind dir and speed (as opposed to "weather data?")
>
>Wind direction and speed are part of the weather data you want to report.

Ok, but it's confusing as hell to have them here, and then call out this second field of "weather data", as if wind speed and direction are not weather data.

> > Field 9 1 char APRS software Field 10 2-4 chars Weather unit Both of
> > these fields are shown as optional, yet if field 10 is missing, then how
> > can you parse it?
>
>Doesnt matter. If you dont care about what kind of wx station it is,
>then no need to parse that field..
>
> > But it isn't, so what DO I do with these, given that I'm not running any
> > APRS software, and I'd like to send an "AVR" identifier?
>
>Maybe use 0 for other and AVR for the identifier...

My point though, is that the spec says both fields are optional, meaning that I may include either, both, or none. Unfortunately, there's no way to parse that data unless the ninth field is required. It may be the case that these two fields are a set, and that I can either leave them both off, or put them both on, (which makes sense to me) but that's not what the doc says.

I'm just trying to get an accurate interpretation of the spec, and to point out areas where it is ambiguous or maybe wrong, so it can be improved.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 11:28:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA06889
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 11:28:08 -0600 (CST)
Date: Sun, 17 Mar 2002 12:28:04 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <LYR11608-69186-2002.03.17-09.06.12--dvanhorn#cedar.net@lists.tapr.org>

X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-id: <LYR11589-69215-2002.03.17-12.00.20--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <5.1.0.14.2.20020317122744.01e81d78@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 09:33 AM 3/17/2002 -0500, Bob Bruninga wrote:

> > Field 2: 7 char, "DHM/HMS"
>
>Day hours minutes

What about the "Z"?

--

Dave's Engineering Page: <http://www.dvanhorn.org>

Got a need to read Bar codes? <http://www.barcodechip.com>
Bi-directional read of UPC-A, UPC-E, EAN-8, EAN-13, JAN, and Bookland, with
two or five digit supplemental codes, in an 8 pin chip, with NO external parts.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Mar 17 12:23:40 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA08551
for <lyris.aprsspec@tappr.org>; Sun, 17 Mar 2002 12:23:35 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sun, 17 Mar 2002 13:22:58 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-Reply-To: <5.1.0.14.2.20020317122744.01e81d78@mail.cedar.net>
Message-ID: <LYR11589-69222-2002.03.17-12.56.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0203171322370.28329-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 17 Mar 2002, David VanHorn wrote:

> At 09:33 AM 3/17/2002 -0500, Bob Bruninga wrote:
>
> > Field 2: 7 char, "DHM/HMS"
> >
> >Day hours minutes
>
> What about the "Z"?

That is the time zone marker for ZULU. It means UTC...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 12:26:02 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA08619
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 12:25:54 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 17 Mar 2002 13:25:42 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>

X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
Message-ID: <LYR11589-69223-2002.03.17-12.58.18--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GS0.4.44.0203171324520.28329-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 17 Mar 2002, David VanHorn wrote:

> But then I am left with confusion over the "DHM/HMS" which implies that I
> can use either one. That can't be true though, since you'd have no way to
> know how to parse it.

Its DHM if it ends with a "z" or it is HMS if it ends with an "h"...

> >Wind direction and speed are part of the weather data you want to report.

> Ok, but it's confusing as hell to have them here, and then call out this
> second field of "weather data", as if wind speed and direction are not
> weather data.

All APRS position reports have DIRECTION and SPEED in those fields. For
the Weather stations, it made sense to conserve bytes and use them for
that.

> > > Field 9 1 char APRS software Field 10 2-4 chars Weather unit Both of
> > > these fields are shown as optional, yet if field 10 is missing, then how
> > > can you parse it?

> >Doesnt matter. If you dont care about what kind of wx station it is,
> >then no need to parse that field..

> > > But it isn't, so what DO I do with these, given that I'm not running any
> > > APRS software, and I'd like to send an "AVR" identifier?

> >Maybe use 0 for other and AVR for the identifier...

> My point though, is that the spec says both fields are optional, meaning
> that I may include either, both, or none. Unfortunately, there's no way to

> parse that data unless the ninth field is required. It may be the case
> that these two fields are a set, and that I can either leave them both off,
> or put them both on, (which makes sense to me) but that's not what the doc
> says.

Yes. They are optional. But most of us would like to see an identifier
there as to your application so that resulting packets can be attributed
to the source... Just choose some characters that are unique to your
application as identifiers...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 17 16:17:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA21632
for <lyris.aprsspec@tapr.org>; Sun, 17 Mar 2002 16:17:17 -0600 (CST)
Date: Sun, 17 Mar 2002 17:17:37 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: APRS1.01 document Weather packets
In-reply-to: <Pine.GSO.4.44.0203171317240.28329-100000@arctic>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Message-id: <LYR11589-69264-2002.03.17-16.49.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
References: <5.1.0.14.2.20020317122011.02079778@mail.cedar.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <5.1.0.14.2.20020317171223.01e72808@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 01:22 PM 3/17/2002 -0500, Bob Bruninga wrote:

>On Sun, 17 Mar 2002, David VanHorn wrote:

>

> > But then I am left with confusion over the "DHM/HMS" which implies that I
> > can use either one. That can't be true though, since you'd have no way to
> > know how to parse it.

>

>Its DHM if it ends with a "z" or it is HMS if it ends with an "h"...

Good thing I asked, that's totally non-obvious from the spec!

>All APRS position reports have DIRECTION and SPEED in those fields. For
>the Weather stations, it made sense to conserve bytes and use them for
>that.

Makes sense, I'm just going at it cold, from what the spec says.
I may in fact be moving when I report, but I will un-twist the wind and
give you the same vector as if I was sitting still.

>Yes. They are optional. But most of us would like to see an identifier
>there as to your application so that resulting packets cab be attributed
>to the source... Just choose some characters that are unique to your
>application as identifiers...

No problem, but the spec should say that those two fields are "all or
nothing", otherwise you'll get unparseable frames.

It's also bad juju to parse from both ends.

There's a long story attached to that, which ended up with me finding a bug
in our code that was triggered by a bug in one of Visa's five tandem
non-stop machines. I had to write a program that simulated transactions,
and every conceivable randomized error, to prove that it was happening the
way I thought that it could.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 18 07:07:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA15496
for <lyris.aprsspec@tapr.org>; Mon, 18 Mar 2002 07:07:36 -0600 (CST)
content-class: urn:content-classes:message

Subject: [aprsspec] Re: APRS1.01 document Weather packets
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Mon, 18 Mar 2002 07:07:30 -0600
Message-ID: <LYR11589-69369-2002.03.18-07.40.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] Re: APRS1.01 document Weather packets
Thread-Index: AchOAY+17BWonUbsQg2pe/daNE07LAAeSHvw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04C847@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id HAA15496

Hi David,

Remember, too, that in a "full" report (with position), the speed is in knots. Sections 6 and 7 give the information you are looking for regarding timestamps, lat/lon format, and the dir/spd extension. Think of a "full" weather report as a position report with weather data in the extension and comment fields.

A minimum weather report consists of wind direction, wind speed, wind gust, and temperature in that order. A positionless weather packet (which, by the way, may be preferred as then you can use any icon for your vehicle in the posit) contains "c...s...g...t..." at a minimum ("..." means "not available").

A full weather packet must have a symbol code of "_", a 7 byte APRS extension of "000/000", and a minimum of "g...t..." Note that a direction of 000 means that wind speed is ignored (use 360 for North).

Speed in a positionless packet is mph. Speed in a full packet (as with any posit) is in knots. Gust speed is always mph.

Regarding the APRS software and WX unit info: don't use c, s, g, t, r, p, P, h, or b as many parsers scan the entire comment field for these characters. Also, the barometric pressure can be either 4 or 5 digits. If it is 4 digits, a bp >= 1000.0 mb loses the 1 (1018.1 = 0181, 925.2 =

9252).

Hope this helps.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: David VanHorn [<mailto:dvanhorn@cedar.net>]

> Posted At: Sunday, March 17, 2002 4:18 PM

> Subject: [aprsspec] Re: APRS1.01 document Weather packets

>

> >All APRS position reports have DIRECTION and SPEED in those
> fields. For

> >the Weather stations, it made sense to conserve bytes and
> use them for

> >that.

>

> Makes sense, I'm just going at it cold, from what the spec says.

> I may in fact be moving when I report, but I will un-twist

> the wind and

> give you the same vector as if I was sitting still.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 19 01:33:26 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA20201

for <lyris.aprsspec@tapr.org>; Tue, 19 Mar 2002 01:33:20 -0600 (CST)

Message-Id: <LYR11589-69642-2002.03.19-02.05.34--

lyris.aprsspec#tapr.org@lists.tapr.org>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Mon, 18 Mar 2002 23:32:46 -0800

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Jim Wagner <wagnerj@proaxis.com>

Subject: [aprsspec] Who keeps Destination "Software Version" codes?

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyriss Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <103130301b8bc99c99e02@[198.145.251.90]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello, List -

Who maintains these codes. Who decides when it is time to transistion from "APZxxx" to a more specific code?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 19 08:25:59 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA24560
for <lyris.aprsspec@tappr.org>; Tue, 19 Mar 2002 08:25:58 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 19 Mar 2002 09:25:39 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
In-Reply-To: <LYR11586-69642-2002.03.19-02.05.34--
bruninga#nadr.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-69689-2002.03.19-08.58.29--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <Pine.GS0.4.44.0203190924550.21315-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 18 Mar 2002, Jim Wagner wrote:

> Who maintains these codes. Who decides when it is time to transistion from
> "APZxxx" to a more specific code?

More or less the individual that wants it. Just pick one, and I'll see if
it conflicts with anything existing and then add it to the list.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 19 10:55:09 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA04818
for <lyris.aprsspec@tappr.org>; Tue, 19 Mar 2002 10:55:08 -0600 (CST)
Message-Id: <LYR11589-69701-2002.03.19-11.27.33--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 19 Mar 2002 10:54:48 -0600
From: Timothy J Salo <tjs@tc.umn.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <iss.528b.3c976d58.4727e.1@garnet.tc.umn.edu>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> Date: Tue, 19 Mar 2002 09:25:39 -0500 (EST)

> From: Bob Bruninga <bruninga@usna.edu>
> Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
>
> > Who maintains these codes. Who decides when it is time to transition from
> > "APZxxx" to a more specific code?
>
> More or less the individual that wants it. Just pick one, and I'll see if
> it conflicts with anything existing and then add it to the list.

"The list"???

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 19 14:51:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22569
for <lyris.aprsspec@tapr.org>; Tue, 19 Mar 2002 14:51:29 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 19 Mar 2002 15:50:58 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
Message-ID: <LYR11589-69731-2002.03.19-15.23.46--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0203191549280.16189-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is the last revision that I know of... dated Sept 2001:

APRS-WG

Bill Diaz requested APA... for his AFilter applications. Here is the
updated list of TOCALLS. I will assume this is acceptable to everyone
unless there are objections.

In response to the last time we debated this and Mike's comments, it should be noted that None of these alignments are Exclusive. They are simply reservations. If someone else wants to use a subgroup of number series, then I will try to accomodate. Notice the "etc" in each category..

This list will be updated in real time as people make Email reservations when such requests are made public and when there is no conflict. I will maintain the list and issue periodic copies on the APRSSPEC list when needed. Official action by the WG is not needed except to resolve conflicts.

- APA A-Filter, Alinco, etc
 - APAFxx AFilter.
 - APAGxx AGATE
 - APAXxx AFilterX.
 - APAHxx AHub
- APB avail
- APC Windows CE, etc
- APD APRSd, etc
- APE avail
- APF avail
- APG Gates, etc
- APH HamHud, etc
- API Icom, etc
 - APICQx for ICQ
- APJ JavaAPRS,JeAPRS,etc
- APK Kenwood, etc
 - APK0xx THD7's
 - APK1xx D700's
- APL Liunx applications
- APM MacAPRS, etc
- APN Network nodes, digis, etc
- APO avail
- APP pocketAPRS, etc
- APQ avail
- APR APR8xx APRSdos,etc
 - APRDxx APRSdata, APRSdr
 - APRKxx APRStk
 - APRS Generic, digis (obsolete. Digis should use APNxx instead)
 - APRXxx APRSmax
 - APRTLM used my MIM's and Mic-lites, etc
- APS APRS+SA, etc
- APT TinyTrack
 - APTTxx Tiny Track
 - APT2xx Tiny Track II
 - APTAXx K4ATM's tiny track

APTV for ATV/APRN and SSTV applications
APU UView, etc
APU1xx UView 16 bit applications
APU2xx UView 32 bit apps
APV avail
APW WinAPRS, etc
APX Xaprs, etc
APY etc, Yeasu, etc
APZ Experimental
APZ0xx Xastir
APZPAD Smart Palm

Due to the limited address space available, we ask that authors be conservative in their use of their address space and try to accomodate others desiring to use the same major address block where possible. If anyone needs a new series and if the subblock is already in use, then the WG would suggest that the requester coordinate with the other authors of that block to arrive at a mutually agreeable arrangement.

Requests for new addresses should be posted on the APRSSPEC list, and in the absence of any conflicts or contention, these requests will be accommodated where possible. In the event of conflict, issues will be resolved by the WG.

WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 19 18:32:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA09094
for <lyris.aprsspec@tapr.org>; Tue, 19 Mar 2002 18:32:29 -0600 (CST)
Message-ID: <LYR11589-69778-2002.03.19-19.04.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 19 Mar 2002 19:32:14 -0500
From: Alex <kr1st@amsat.org>
Reply-To: kr1st@amsat.org
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Request for TOCALL designation
References: <LYR23952-69731-2002.03.19-15.23.46--kr1st#amsat.org@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3C97D88E.B0E628DB@amsat.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi there,

May I request to reserve the APCYxx TOCALL subgroup for my Cybiko applications?

Thanks and 73s,
--Alex

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 19 18:53:15 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA10318
for <lyris.aprsspec@tappr.org>; Tue, 19 Mar 2002 18:53:12 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 19 Mar 2002 19:52:51 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Request for TOCALL designation
In-Reply-To: <LYR11586-69778-2002.03.19-19.04.59--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-69785-2002.03.19-19.25.43--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GS0.4.44.0203191952360.18037-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 19 Mar 2002, Alex wrote:

> May I request to reserve the APCYxx TOCALL subgroup for my Cybiko
> applications?

Looks OK to me...
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 02:19:19 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA03152
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 02:19:15 -0600 (CST)
Message-ID: <LYR11589-69843-2002.03.20-02.51.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 20 Mar 2002 08:16:43 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
References: <LYR26815-69731-2002.03.19-15.23.46--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-69731-2002.03.19-15.23.46--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <x5ovQmBrVEm8EwcN@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-69731-2002.03.19-15.23.46--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes

[snip]

```
> APU UView, etc
>   APU1xx UView 16 bit applications
>   APU2xx UView 32 bit apps
```

I would also like to use APU3. (For an unproto terminal that has some APRS capabilities.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 08:18:00 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA24850
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 08:17:59 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 20 Mar 2002 09:17:22 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
In-Reply-To: <x5ovQmBrVEm8EwcN@peaksys.co.uk>
Message-ID: <LYR11589-69865-2002.03.20-08.50.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.44.0203200917070.6866-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 20 Mar 2002, Roger Barker wrote:

```
> > APU UView, etc
> >   APU1xx UView 16 bit applications
```

> > APU2xx UView 32 bit apps
>
> I would also like to use APU3. (For an unproto terminal that has some
> APRS capabilities.)

OK, Ill add it.
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 09:25:30 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA28065
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 09:25:27 -0600 (CST)
From: "Rob Wittner" <rmw@rwa-inc.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Request for TOCALL designation
Date: Wed, 20 Mar 2002 10:25:47 -0500
Message-ID: <LYR11589-69874-2002.03.20-09.57.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11697-69778-2002.03.19-19.04.59--rmw#rwa-inc.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <000001c1d023\$8378f660\$c84a5d0c@io>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> APC Windows CE, etc

Well, as long as everyone's cognizant that APCYxx is the Cybiko version and
APC[^Y]xx is the Windows CE version.

I'll be happy to avoid the Y in the fourth character.

Anyone?

-Rob

-----Original Message-----

From: bounce-aprsspec-11697@lists.tapr.org
[mailto:bounce-aprsspec-11697@lists.tapr.org]On Behalf Of Alex
Sent: Tuesday, March 19, 2002 7:32 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Request for TOCALL designation

Hi there,

May I request to reserve the APCYxx TOCALL subgroup for my Cybiko applications?

Thanks and 73s,
--Alex

You are currently subscribed to aprsspec as: rnmw@rwa-inc.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 11:46:50 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA09305
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 11:46:48 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 20 Mar 2002 12:45:50 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: Request for TOCALL designation
In-Reply-To: <LYR11586-69874-2002.03.20-09.57.49--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-69893-2002.03.20-12.19.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0203201245340.8392-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 20 Mar 2002, Rob Wittner wrote:

> > APC Windows CE, etc
>
> Well, as long as everyone's cognizant that APCYxx is the Cybiko version and
> APC[^Y]xx is the Windows CE version.
>
> I'll be happy to avoid the Y in the fourth character.

Seems reasonable..

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 12:22:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11492
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 12:22:00 -0600 (CST)
Mime-Version: 1.0
X-Sender: ksproul@email.rci.rutgers.edu
Message-Id: <LYR11589-69896-2002.03.20-12.54.35--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 20 Mar 2002 13:20:44 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@rci.rutgers.edu>

Subject: [aprsspec] RE: Request for TOCALL designation
Cc: "Rob Wittner" <rmw@rwa-inc.com>
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <a05100315b8be82d80fdb@[128.6.228.76]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I thought APC was totally reserved for Windows CE..

If Rob has a problems with APCY, then I would too..

However, if Rob is using APCExx and Alex uses APCYxx, then I wouldn't have a problem with it either..

I also don't have a problem with the APUxxx

=====
Hi there,

May I request to reserve the APCYxx TOCALL subgroup for my Cybiko applications?

Thanks and 73s,
--Alex

In message <LYR26815-69731-2002.03.19-15.23.46--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes
[snip]

> APU UView, etc
> APU1xx UView 16 bit applications
> APU2xx UView 32 bit apps

I would also like to use APU3. (For an unproto terminal that has some APRS capabilities.)

=====

> APC Windows CE, etc

Well, as long as everyone's cognizant that APCYxx is the Cybiko version and APC[^Y]xx is the Windows CE version.

I'll be happy to avoid the Y in the fourth character.

Anyone?

-Rob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Mar 20 20:55:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA04495
for <lyris.aprsspec@tapr.org>; Wed, 20 Mar 2002 20:55:22 -0600 (CST)
Content-Type: text/plain;
charset="iso-8859-1"
From: Chuck Byam <cbyam@virginia.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Who keeps Destination "Software Version" codes?
Date: Wed, 20 Mar 2002 21:55:06 -0500
References: <LYR22386-69731-2002.03.19-15.23.46--
cbyam#virginia.edu@lists.tapr.org>
In-Reply-To: <LYR22386-69731-2002.03.19-15.23.46--
cbyam#virginia.edu@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-69947-2002.03.20-21.27.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200203202155.06719.cbyam@virginia.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA04495

On Tuesday 19 March 2002 03:50 pm, Bob Bruninga wrote:
: Here is the last revision that I know of... dated Sept 2001:
<snip>
: APX Xaprs, etc
: APY etc, Yeasu, etc
: APZ Experimental
: APZ0xx Xastir

: APZPAD Smart Palm
:

Xastir has been using the APX designation for about a year now.

Chuck Byam
Xastir project coordinator
<http://www.xastir.org>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 30 08:42:16 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA07381
for <lyris.aprsspec@tapr.org>; Sat, 30 Mar 2002 08:42:11 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 30 Mar 2002 09:41:36 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
Dwight Hazen <hazen@indiana.edu>, James Smith <k9apr@kiva.net>
Subject: [aprsspec] User defined APRS formats
In-Reply-To: <LYR11586-65369-2002.02.25-20.44.24--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-71515-2002.03.30-09.14.59--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.GSO.4.44.0203300933020.29849-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 25 Feb 2002, jabennett wrote:

> I need a "User-Defined Packet Type" character for the two defined packet
> types of weather data that my code will use. In the interim, I have
> decided to release the new version with the generic character "{"

I dont think we have a very good list (or I cant find it). Can EVERYONE that is currently using a user defined format please send in your usage? Here is the only one I know about:

APRS USER DEFINED DATA FORMATS LIST (26 Mar 2001)

HEADER	AUTHOR	DESCRIPTION
{Fnn	WB4APR	nn is a 2 byte descriptor of MITELE GPS data formats
{K1	WB4APR	"K" for Keps and "1" for NASA One line.
{K2n	WB4APR	For NASA two line elements. "n" is line 1 or 2.
{}	J Bennet	for WX

de WB4APR@amsat.org, Bob

PCsat Design	http://web.usna.navy.mil/~bruninga/pcsat.html
CUBESAT Designs	http://web.usna.navy.mil/~bruninga/cubesat.html
APRS LIVE pages	http://web.usna.navy.mil/~bruninga/aprs.html
APRS SATELLITES	http://web.usna.navy.mil/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprssig as: bruninga@usna.edu
To unsubscribe send a blank email to leave-aprssi-20817K@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprssi@tapr.org
To unsubscribe send a blank email to leave-aprssi-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprssi-11589@lists.tapr.org Sun Mar 31 22:49:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA04735
for <lyris.aprssi@tapr.org>; Sun, 31 Mar 2002 22:49:27 -0600 (CST)
Message-ID: <LYR11589-71720-2002.03.31-23.22.26--
lyris.aprssi@tapr.org>
From: "jabennett" <jabennett@sigecon.net>
To: "APRS Spec Discussion List" <aprssi@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprssi@lists.tapr.org>,
"Dwight Hazen" <hazen@indiana.edu>, "James Smith" <k9apr@kiva.net>
References: <Pine.GS0.4.44.0203301958490.15150-1000000@arctic>
Subject: [aprssi] Re: User defined APRS formats

Date: Sun, 31 Mar 2002 22:48:12 -0600
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4910.0300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <003001c1d938\$6e4a17b0\$0701a8c0@lz130>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

W would be OK. X is in my call, Linux, and X (the latter two because I'm porting to the Linux platform). That's the only reason. If others use the data, 'W' would probably make more sense.

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "jabennett" <jabennett@sigecom.net>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>; "Dwight Hazen" <hazen@indiana.edu>; "James Smith" <k9apr@kiva.net>
Sent: Saturday, March 30, 2002 6:59 PM
Subject: Re: [aprsspec] User defined APRS formats

> On Sat, 30 Mar 2002, jabennett wrote:

>

> > If available, I would like to use:

> >

> > {x1

> > {x2

>

> Since it is weather, is there any reason why not to use {W ?

> Just an idea...

> bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Apr 1 09:06:22 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA26032
for <lyris.aprsspec@tappr.org>; Mon, 1 Apr 2002 09:06:21 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 1 Apr 2002 10:06:12 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: User defined APRS formats
Message-ID: <LYR11589-71775-2002.04.01-09.39.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <Pine.GS0.4.44.0204011005320.10205-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> If available, I would like to use:
>
> {x1
> {x2

Since it is weather, is there any reason why not to use {W ?
Just an idea...
bob

>
> The data format is currently available on my web site at:
>
> <http://members.sigecom.net/jabennett/wxn/types.htm>
>
> There will be a type 3 in the very near future which would be '{x3'

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 2 19:48:13 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA01394

for <lyris.aprsspec@tapr.org>; Tue, 2 Apr 2002 19:48:04 -0600 (CST)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Tue, 02 Apr 2002 20:47:35 -0500
Subject: [aprsspec] ADMIN: Monthly Reading of the Riot Act
From: Stan Horzempa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-71951-2002.04.02-20.21.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B8CFC967.322B%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA01394

(This message is posted on the APRS SPEC SIG on a monthly basis.)

PURPOSE

The purpose of the APRS SPEC SIG is to provide a forum for folks interested in discussing the APRS protocol specification.

POSTING MESSAGES

To post messages to the APRS SPEC SIG, send email to aprsspec@lists.tapr.org

APRS SPEC SIG RULES

The APRS SPEC SIG has a few simple rules:

- . Be courteous. Abusive, insulting, or rude behavior demonstrated towards another list member is a violation of this rule.
- . Stick to the subject, i.e., the APRS protocol specification. Subjects that are only tangentially related to the APRS protocol specification (like ≥what kind of printer should I buy to print out my copy of the APRS specification?≤) may be considered off-topic. If you start a message with ≥this is off-topica≤ then you are violating this rule.
- . Be succinct when composing a message. (The APRS SPEC SIG software has been optioned to limit the length of each message.)

- . When quoting a previous message, only quote the parts of that message you are referencing. (The APRS SPEC SIG software has been optioned to limit the length of a quote.)
- . Do not send messages in HTML or Rich Text format.
- . Do not send attachments.
- . Cross-posting is not permitted. (The APRS SPEC SIG software has been optioned to prevent cross-posting.)
- . The APRS SPEC SIG administrator reserves the right to suspend or ban any list member who violates these rules.

SUBSCRIPTION MAINTENANCE

You may make changes to your subscription (like change your email address, toggle on/off the digest mode, etc.) by logging into the APRS SPEC SIG at <http://www.tapr.org/cgi-bin/lyris.pl>

UNSUBSCRIBING

To unsubscribe from the APRS SPEC SIG, follow the directions you will find at the bottom of each message you receive from the APRS SPEC SIG.

QUESTIONS, COMMENTS, ETC.

If you have any questions, comments, etc. concerning the APRS SPEC, please email the APRS SPEC SIG administrator at the address below.

Stan Horzempa, WA1LOU, wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 6 11:57:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21942
for <lyris.aprsspec@tapr.org>; Sat, 6 Apr 2002 11:57:46 -0600 (CST)
Message-Id: <LYR11589-72632-2002.04.06-12.30.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"
Date: Sat, 6 Apr 2002 09:56:26 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] QUERY
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <l03130300b8d4e5205f26@[198.145.251.83]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello, List...

I've just started working on query processing for easyAPRS. A clarification would really help.

The ?IGATE? and ?WX? undirected queries are all described in APRS101.pdf in the same section with the ?APRS? query. The described format says that a "target footprint" can be included. The example shows such with the ?APRS? query but not with the other two. Can the target be expected with ?IGATE? and ?WX?. I suspect so, but want to make sure.

Many thanks to all...

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 9 00:58:27 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA22837

for <lyris.aprsspec@tapr.org>; Tue, 9 Apr 2002 00:58:23 -0500 (CDT)
Message-Id: <LYR11589-73040-2002.04.09-01.31.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 8 Apr 2002 22:57:54 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] APRSH Details
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130300b8d831c716bb@[198.145.251.13]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, Spec Discussion Group -

Some details about APRSH would be helpful.

It asks the addressed station to return the number of times the sending station has been heard in each of the last 8 hours.

(1) Are those hours reckoned from the receiving time or "straight-up clock" time. That is, if the query is received at 0915 hr, would the most recent hour begin at 0900 or 0815?

(2) The example in the specs seems to use periods to denote hours with nothing heard. Why not "0"?

(3) Does this count unique packets or total packets including duplicates arriving from multiple WIDE sources?

(4) Are multi-digit hour fields allowed?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 9 09:17:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA01729
for <lyris.aprsspec@tapr.org>; Tue, 9 Apr 2002 09:17:17 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 9 Apr 2002 10:17:06 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSH Details
Message-ID: <LYR11589-73059-2002.04.09-09.50.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0204091015540.5692-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 8 Apr 2002, Jim Wagner wrote:

> Some details about APRSH would be helpful.
> It asks the addressed station to return the number of times the sending
> station has been heard in each of the last 8 hours.
>
> (1) Are those hours reckoned from the receiving time or "straight-up clock"
> time. That is, if the query is received at 0915 hr, would the most recent
> hour begin at 0900 or 0815?

Per clock hour. starting at 00 minutes each hour.

> (2) The example in the specs seems to use periods to denote hours with
> nothing heard. Why not "0"?

Probably not required. On the APRSdos HEARD screen, it is much easier to

see numbers out of a field of dots compared to numbers out of a sea of "0"'s

> (3) Does this count unique packets or total packets including duplicates
> arriving from multiple WIDE sources?

Totals including dupes. Gives an idea of channel load from that person.
>

> (4) Are multi-digit hour fields allowed?

Actually, the response is just a string of 8 fields with no labels of the hours. 1 3 5 . . 6 4 9

is always 8 fields long with the first digit being the present hour...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 9 18:35:10 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA06337
for <lyris.aprsspec@tapr.org>; Tue, 9 Apr 2002 18:35:09 -0500 (CDT)
Date: Tue, 09 Apr 2002 19:33:35 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] 2002 Digital BASH at Dayton Hamvention
Message-ID: <LYR11589-73146-2002.04.09-19.07.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <82347319.1018380815@[192.168.1.26]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Going to the Dayton Hamvention? Then plan to attend the annual Digital*BASH sponsored by TAPR and the Miami Valley FM Association to be held on Friday, May 17, 2002!

For reservations, please contact the TAPR office as described below.

What?

An event for the digitally-inclined ham, featuring:

- * Buffet dinner (Prime Rib, Chicken, and Pasta)
- * Keynote Address (Speaker to be named)
- * TAPR special interest group meetings
- * "Birds of a Feather" gatherings

When?

Friday evening, May 17, 2002

Doors open at 7:00 pm; dinner served at 7:30 pm

Speaker and meetings after dinner

Where?

Kohler's Banquet Center, 4548 Presidential Way, Kettering
(39 40.75N, 84 08.43W), about 6 miles SE of downtown Dayton --
just off of East David Road. Detailed directions and maps are available
on the TAPR web site (<http://www.tapr.org/tapr/html/Fdayton.maps.html>)
or at the TAPR booth.

How?

Dinner requires advance registration and payment through TAPR.
Tickets will be available at the TAPR booth on Friday, though
we strongly encourage registration <before> Hamvention. The cost
is \$25.00 per person, tax and tip included.

All amateurs are welcome to attend, enjoy the speaker, and
participate in the meetings, although only those purchasing a dinner
can eat.

To register, contact:

PACK*BASH

c/o TAPR

8987-309 E. Tanque Verde Road #337

Tucson, AZ 85749-9399

Phone: 972-671-TAPR (8277)

Fax: 972-671-8716

Internet: tapr@tapr.org

Visa/Mastercard Accepted

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio, the national leader in digital communication -- and the Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to <http://www.tapr.org/tapr/html/dayton.html#packetbash>, or send email to tapr@tapr.org.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 11 11:41:03 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA02598
for <lyris.aprsspec@tapr.org>; Thu, 11 Apr 2002 11:41:01 -0500 (CDT)
X-Authentication-Warning: eskimo.com: archer owned process doing -bs
Date: Thu, 11 Apr 2002 09:40:31 -0700 (PDT)
From: "Curt, WE7U" <archer@eskimo.com>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "Curt Mills, WE7U" <hacker@tc.fluke.com>,
"Curt Mills, WE7U" <archer@eskimo.com>
Subject: [aprsspec] Weather Icons
Message-ID: <LYR11589-73460-2002.04.11-12.14.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <Pine.SUN.3.96.1020411093836.7808A-100000@eskimo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Trying from a 2nd address, as the first doesn't appear to have made it to the list. Sorry if you get two copies of the message.

Curt, WE7U archer@eskimo.com
Arlington, WA, USA http://www.eskimo.com/~archer
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

----- Forwarded message -----
Date: Thu, 11 Apr 2002 09:07:12 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <archer@eskimo.com>
Subject: Weather Icons

APRS spec, Chapter 12: Weather Reports, page 65 (page 75 in the PDF file) says this:

"An APRS Complete Weather Report can contain a timestamp and location information, using any of the legal lat/long and compressed lat/long position formats described earlier. An APRS Object may also have weather information associated with it.

Examples of report formats are shown below. Note that the Symbol Code in every case is the _ (underscore). Also the 7-byte Wind Direction and Wind Speed Data Extension replace the cccc and ssss fields of a Positionless Weather Report."

So... That pretty much casts in stone that weather reports should only have _ or /_ symbols (blue or green WX circles). /W and \W are not allowed by the spec.

In the symbol table though, /W and \W are for National Weather Service stations, and NWS + overlay.

So, are the \W and /W icons to be used for stations sending Complete Weather Reports on APRS? If so, the spec text is wrong.

I just tweaked Xastir to only allow _ and /_ for weather stations. If the NWS icons are intended for use at NWS _as_ weather stations, then I need to tweak the code some more, and the spec needs to be corrected as well.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 11 12:13:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04931
for <lyris.aprsspec@tapr.org>; Thu, 11 Apr 2002 12:13:51 -0500 (CDT)
Subject: [aprsspec] RE: Weather Icons
Date: Thu, 11 Apr 2002 12:13:36 -0500
Message-ID: <LYR11589-73475-2002.04.11-12.47.21--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] Weather Icons
Thread-Index: AcHhd9LAT+JfmEexRymuLJs63GP88wAA8mwQ
content-class: urn:content-classes:message
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04C975@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id MAA04931

Good question. My interpretation has been that NWS stations must send weather as a positionless packet if they want to send weather. The Fort Worth, TX NWS station doesn't send weather so it is not an issue here. Basically, if a station wants to use an icon other than the _ (by the way, overlays are ok), it must use separate posit and positionless weather packets.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Curt, WE7U [mailto:archer@eskimo.com]

> Posted At: Thursday, April 11, 2002 11:42 AM

> Subject: [aprsspec] Weather Icons

>

> So, are the \W and /W icons to be used for stations sending Complete

> Weather Reports on APRS? If so, the spec text is wrong.

>

> I just tweaked Xastir to only allow _ and /_ for weather stations.

> If the NWS icons are intended for use at NWS _as_ weather stations,

> then I need to tweak the code some more, and the spec needs to be

> corrected as well.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 11 14:58:08 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA17632

for <lyris.aprsspec@tapr.org>; Thu, 11 Apr 2002 14:58:03 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Thu, 11 Apr 2002 15:57:06 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>

X-X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,

"Curt Mills, WE7U" <hacker@tc.fluke.com>

Subject: [aprsspec] Re: Weather Icons

In-Reply-To: <LYR11586-73460-2002.04.11-12.14.29--

bruninga#nadm.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-73488-2002.04.11-15.31.33--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <Pine.GS0.4.44.0204111555210.23278-100000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Thu, 11 Apr 2002, Curt, WE7U wrote:

> So, are the \W and /W icons to be used for stations sending Complete
> Weather Reports on APRS? If so, the spec text is wrong.
>
> I just tweaked Xastir to only allow _ and /_ for weather stations.
> If the NWS icons are intended for use at NWS _as_ weather stations,
> then I need to tweak the code some more, and the spec needs to be
> corrected as well.

Yes, I have always accepted /W and \W interchangeably with /_ and _.
thanks for finding the bug in the spec...
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 11 15:41:03 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21363
for <lyris.aprsspec@tapr.org>; Thu, 11 Apr 2002 15:40:55 -0500 (CDT)
Subject: [aprsspec] Re: Weather Icons
Date: Thu, 11 Apr 2002 15:40:37 -0500
Message-ID: <LYR11589-73493-2002.04.11-16.14.21--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] Re: Weather Icons
content-class: urn:content-classes:message
Thread-Index: AcHhkz3zc+EIif5pSEqSOR4PMZ+bHwABTcCA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04C978@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA21363

That being the case, how many other software authors besides myself (and Steve Dimse) have their software set to the spec? Since the spec has been out for a while, wouldn't it be more prudent (yes, I know you don't like them) to have the NWS stations that want to transmit weather use positionless weather packets? Or is the WG willing to modify the spec and release an update for all authors to follow?

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Bob Bruninga [<mailto:bruninga@usna.edu>]

> Posted At: Thursday, April 11, 2002 2:58 PM

> Subject: [aprsspec] Re: Weather Icons

>

> Yes, I have always accepted /W and \W interchangeably with /_ and _.

> thanks for finding the bug in the spec...

> Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 11 15:49:18 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA21738

for <lyris.aprsspec@tapr.org>; Thu, 11 Apr 2002 15:49:12 -0500 (CDT)

X-Authentication-Warning: eskimo.com: archer owned process doing -bs

Date: Thu, 11 Apr 2002 13:48:52 -0700 (PDT)

From: "Curt, WE7U" <archer@eskimo.com>

Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,

"Curt Mills, WE7U" <hacker@tc.fluke.com>,

"Curt Mills, WE7U" <archer@eskimo.com>

Subject: [aprsspec] Re: Weather Icons

In-Reply-To: <Pine.GS0.4.44.0204111555210.23278-1000000@arctic>

Message-ID: <LYR11589-73495-2002.04.11-16.22.42-->

lyris.aprsspec#tapr.org@lists.tapr.org

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.SUN.3.96.1020411134401.28747A-100000@eskimo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 11 Apr 2002, Bob Bruninga wrote:

> Yes, I have always accepted /W and \W interchangeably with /_ and _.
> thanks for finding the bug in the spec...

And some small bugs at findu.com: It seems that out of these four symbols (/W \W /_ _), only some of them are parsed by findu.
>From the message I just saw it may be because Steve wrote the code with spec in hand, which is what I'm trying to do.

Another bug at findu has to do with reversed table/symbol chars in a MIC-E packet: They are parsed by findu.com and shouldn't be. With the TinyTrak-II config software it's easy to make this error and I've done so. I've seen other people do this as well.

I'm getting quite a collection of bugs, omissions, and duplications in the spec. Is there any hope of updating it in the future?

Is it time to put the spec on SourceForge so it can be updated in a reasonable timeframe and the changes tracked? SourceForge is working well for the Xastir project. It should work just as well for a spec. Anyone interested in changes to the spec as they occur could subscribe to a mailing list for just that.

I'll tweak Xastir to allow sending any of the four for weather reports, but I'll probably bring up a popup warning dialog if they select NWS icons, just to let the user know what they're really selecting.

Curt, WE7U archer@eskimo.com
Arlington, WA, USA http://www.eskimo.com/~archer
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 12 00:24:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA16398
for <lyris.aprsspec@tapr.org>; Fri, 12 Apr 2002 00:24:17 -0500 (CDT)
Message-Id: <LYR11589-73593-2002.04.12-00.57.44--
lyris.aprsspec@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 11 Apr 2002 22:23:36 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Re: Weather Icons
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <l03130300b8dc1f9f417d@[198.145.251.15]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

easyAPRS will be tweaked to conform to this revelation. I was just working
on weather (coincidence!) so it will be easy.

Jim, KA7EHK

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapir.org Fri Apr 12 17:24:03 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id RAA20960
for <lyris.aprsspec@tapir.org>; Fri, 12 Apr 2002 17:23:58 -0500 (CDT)
X-Authentication-Warning: eskimo.com: archer owned process doing -bs
Date: Fri, 12 Apr 2002 15:23:32 -0700 (PDT)
From: "Curt, WE7U" <archer@eskimo.com>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: "Curt Mills, WE7U" <hacker@tc.fluke.com>,
"Curt Mills, WE7U" <archer@eskimo.com>
Subject: [aprsspec] Weather Software Designator
Message-ID: <LYR11589-73756-2002.04.12-17.57.23--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
X-Message-Id: <Pine.SUN.3.96.1020412151502.4612A-100000@eskimo.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

For Complete Weather Report Format, as it exists in the spec,
there isn't an option for Xastir. What letter should we use
near the end of the weather report to specify the software?

Big 'X' perhaps? Small 'x' is listed as X-APRS (Linux).
Big 'X' could be for "Xastir (MacOS X/Solaris/FreeBSD/Linux)".
Sound reasonable? We're currently sending a 'z' in that slot.

Also, we are sending to APXyyy currently (APX112 in the latest
CVS version). We made the change to 'X' over a year ago, but
haven't seen it in any official lists yet. Can we get this
cast in stone finally?

Thanks,

Curt, WE7U archer@eskimo.com
Arlington, WA, USA http://www.eskimo.com/~archer
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 12 17:47:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA22107
for <lyris.aprsspec@tapr.org>; Fri, 12 Apr 2002 17:47:27 -0500 (CDT)
X-Authentication-Warning: eskimo.com: archer owned process doing -bs
Date: Fri, 12 Apr 2002 15:47:16 -0700 (PDT)
From: "Curt, WE7U" <archer@eskimo.com>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Curt Mills, WE7U" <hacker@tc.fluke.com>
Subject: [aprsspec] Re: Weather Software Designator
In-Reply-To: <Pine.GS0.4.44.0204121834260.28554-1000000@arctic>
Message-ID: <LYR11589-73759-2002.04.12-18.21.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.SUN.3.96.1020412154429.5903A-1000000@eskimo.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 12 Apr 2002, Bob Bruninga wrote:

> Sounds good to me.
> THis summer I hope to go through the 1100 emails in my APRSwg folder and
> summarize where we stand...

:--)

Ok: We'll use capital 'X' near the end of the weather reports
and continue to use APXyyy as the destination address.

I'll commit the 'X' change to CVS immediately.

Thanks,

Curt, WE7U archer@eskimo.com
Arlington, WA, USA http://www.eskimo.com/~archer
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 12 18:27:18 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24647
 for <lyris.aprsspec@tapr.org>; Fri, 12 Apr 2002 18:27:14 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 12 Apr 2002 19:27:00 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Weather Software Designator
Message-ID: <LYR11589-73762-2002.04.12-19.00.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GS0.4.44.0204121926130.28554-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Sounds good to me.
THis summer I hope to go through the 1100 emails in my APRSwg folder and
summarize where we stand...

Bob

On Fri, 12 Apr 2002, Curt, WE7U wrote:

> For Complete Weather Report Format, as it exists in the spec,
> there isn't an option for Xastir. What letter should we use
> near the end of the weather report to specify the software?

> Big 'X' perhaps? Small 'x' is listed as X-APRS (Linux).

> Big 'X' could be for "Xastir (MacOS X/Solaris/FreeBSD/Linux)".
> Sound reasonable? We're currently sending a 'z' in that slot.

> Also, we are sending to APXyyy currently (APX112 in the latest
> CVS version). We made the change to 'X' over a year ago, but
> haven't seen it in any official lists yet. Can we get this
> cast in stone finally?

> Thanks,
> Curt, WE7U archer@eskimo.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 13 11:08:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA18039
 for <lyris.aprsspec@tapr.org>; Sat, 13 Apr 2002 11:08:21 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Sat, 13 Apr 2002 12:06:09 -0400
Subject: [aprsspec] ADMIN: HTML no more
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-73929-2002.04.13-11.40.21--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <B8DDCFB1.36F4%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thanks to a tip I received from Bill, WA7NWP, I was able to configure the
SIG software to automatically reject HTML messages. So, this SIG is now HTML
free!

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 13 13:20:25 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA25363
for <lyris.aprsspec@tapr.org>; Sat, 13 Apr 2002 13:20:21 -0500 (CDT)
From: "Kevin Brown" <kbrown@powerhouseproductions.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: ADMIN: HTML no more
Date: Sat, 13 Apr 2002 13:19:52 -0500
Message-ID: <LYR11589-73964-2002.04.13-13.53.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR22300-73929-2002.04.13-11.40.21--
kbrown#powerhouseproductions.com@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4133.2400
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <004601c1e317\$d178ea80\$6401a8c0@jffsn1.mo.home.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

YAY!

-----Original Message-----

From: bounce-aprsspec-22300@lists.tapr.org
[<mailto:bounce-aprsspec-22300@lists.tapr.org>] On Behalf Of Stan Horzepa
Sent: Saturday, April 13, 2002 11:06 AM
To: APRS Spec Discussion List
Subject: [aprsspec] ADMIN: HTML no more

Thanks to a tip I received from Bill, WA7NWP, I was able to configure

the SIG software to automatically reject HTML messages. So, this SIG is now HTML free!

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as:
kbrown@powerhouseproductions.com To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 13 16:29:57 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA07437
for <lyris.aprsspec@tappr.org>; Sat, 13 Apr 2002 16:29:54 -0500 (CDT)
Message-ID: <LYR11589-73988-2002.04.13-17.03.25--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 13 Apr 2002 16:29:32 -0500
From: Gerry Creager N5JXS <gerry@cs.tamu.edu>
Reply-To: gerry@cs.tamu.edu
Organization: Da House
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:0.9.4.1) Gecko/20020314
Netscape6/6.2.2
X-Accept-Language: en-us
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: ADMIN: HTML no more
References: <LYR22347-73929-2002.04.13-11.40.21--gerry#cs.tamu.edu@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3CB8A33C.6040202@cs.tamu.edu>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In commenting publicly about oone of the few things I like about Lyris,
thank you, Stan, for this.

73, gerry

--

Stan Horzepa wrote:

> Thanks to a tip I received from Bill, WA7NWP, I was able to configure the
> SIG software to automatically reject HTML messages. So, this SIG is now HTML
> free!
>
> Stan, WA1LOU, SIG administrator
>
>
> ---
> You are currently subscribed to aprsspec as: gerry@cs.tamu.edu
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

--

--

Gerry Creager -- gerry@cs.tamu.edu

Network Engineering

Academy for Advanced Telecommunications and Learning Technologies

Texas A&M University 979.458.4020 (Phone) -- 979.847.8578 (Fax)

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 09:44:46 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA01794
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 09:44:42 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Sun, 14 Apr 2002 10:44:25 -0400
Subject: [aprsspec] ADMIN: replying to this SIG
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-74073-2002.04.14-10.18.18--
lyris.aprsspec#tappr.org@lists.tappr.org>

Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <B8DF0E09.3771%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

When you reply to a message on this SIG, the SIG software is set up so that you end up replying to the person that posted the message. Your reply will not be posted to the SIG unless you Reply-To-All or you add the SIG email address in the TO: field of your message.

Is this the way you like it? Many other SIGs including two others I administer are set up to reply to the SIG rather than to the person who posted the message. Would you prefer this option?

Let me know if you would prefer to reply to the SIG or reply to the person who posted the message. The majority rules!

73,

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 11:00:38 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05268
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 11:00:32 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 14 Apr 2002 12:00:15 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
In-Reply-To: <LYR11586-74073-2002.04.14-10.18.18--
bruninga#nadm.navy.mil@lists.tappr.org>

Message-ID: <LYR11589-74085-2002.04.14-11.34.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <Pine.GSO.4.44.0204141159050.3742-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'd say Change it. A reply to SIG should be the purpose of a SPEC
discussion LIST.
Bob

On Sun, 14 Apr 2002, Stan Horzepa wrote:

> When you reply to a message on this SIG, the SIG software is set up so that
> you end up replying to the person that posted the message. Your reply will
> not be posted to the SIG unless you Reply-To-All or you add the SIG email
> address in the TO: field of your message.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Apr 14 11:11:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA05966
for <lyris.aprsspec@tapr.org>; Sun, 14 Apr 2002 11:11:26 -0500 (CDT)
Message-ID: <LYR11589-74091-2002.04.14-11.45.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Fred Moses" <kc8ody@faara.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR16692-74073-2002.04.14-10.18.18--kc8ody#faara.org@lists.tapr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
Date: Sun, 14 Apr 2002 12:10:55 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4910.0300
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <007401c1e3ce\$f50d9240\$01000001@netsound>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

reply to the list.. everybody share

fred

----- Original Message -----

From: "Stan Horzepa" <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Sent: Sunday, April 14, 2002 10:44
Subject: [aprsspec] ADMIN: replying to this SIG

When you reply to a message on this SIG, the SIG software is set up so that you end up replying to the person that posted the message. Your reply will not be posted to the SIG unless you Reply-To-All or you add the SIG email address in the TO: field of your message.

Is this the way you like it? Many other SIGs including two others I administer are set up to reply to the SIG rather than to the person who posted the message. Would you prefer this option?

Let me know if you would prefer to reply to the SIG or reply to the person who posted the message. The majority rules!

73,

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: kc8ody@faara.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 14:30:28 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA17392
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 14:30:25 -0500 (CDT)
Message-ID: <LYR11589-74126-2002.04.14-15.04.05--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sun, 14 Apr 2002 15:31:49 -0400
From: Rick Holbert <rholbert@fastmail.fm>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
References: <LYR28514-74073-2002.04.14-10.18.18--
rholbert#fastmail.fm@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3CB9D925.6FEA7CB6@fastmail.fm>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

My vote is for it to reply to the SIG.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 14:57:38 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA18451
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 14:57:37 -0500 (CDT)
Date: Sun, 14 Apr 2002 12:57:08 -0700
From: "Dana H. Myers" <k6jq@arrl.net>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: aprsspec@lists.tappr.org
Message-id: <LYR11589-74134-2002.04.14-15.31.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0

Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7bit
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:0.9.4)
Gecko/20011128 Netscape6/6.2.1
X-Accept-Language: en-us
References: <LYR28303-74073-2002.04.14-10.18.18--k6jq#arrl.net@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <3CB9DF14.2050003@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I've seen far too many examples of where someone meant to reply personally to someone but it was sent to an entire list to think it's *never* a good idea to default to 'reply-all'. The potential for damage grossly outweighs the normal benefit.

If person A writes to the list and person B replies, but only to person A, it's easy enough for person A to privately write person B and suggest the message be forwarded to the list.

Dana K6JQ
k6jq@arrl.net

Stan Horzepa wrote:

>Let me know if you would prefer to reply to the SIG or reply to the person
>who posted the message. The majority rules!
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 15:35:34 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA20590
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 15:35:32 -0500 (CDT)
Message-ID: <LYR11589-74141-2002.04.14-16.09.15--

lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 14 Apr 2002 14:35:22 -0600
From: KC7ZRZU - Tate <kc7zru@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
References: <LYR28303-74073-2002.04.14-10.18.18--k6jq#arrl.net@lists.tapr.org>
<LYR19726-74134-2002.04.14-15.31.08--kc7zru#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3CB9E80A.C7D590E3@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Reply to all - personal accountability and shared discussion outweigh
the potential for folks that don't yet know how to control their news
clients.

Everyone's gotta learn - sometimes with an embarrassing motivator. And
the manouvers required to purposely direct a message are minimal.

73

"Dana H. Myers" wrote:

>
> The potential
> for damage grossly outweighs the normal benefit.
>

--

Casper, WY		CARC Repeater
DN62tt		146.940

"The Dungeon" online at <http://go.to/kc7zru>
"RTFM" is NOT a 'four letter' word!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 14 17:14:54 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25356
for <lyris.aprsspec@tappr.org>; Sun, 14 Apr 2002 17:14:49 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Sun, 14 Apr 2002 18:12:49 -0400
Subject: [aprsspec] ADMIN: Survey
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-74162-2002.04.14-17.47.51--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <B8DF7721.37EF%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I will keep accepting survey responses until they dwindle to nothing or less. By the way, you can send your survey responses directly to me rather than the SIG.

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Apr 17 19:57:21 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA07555
for <lyris.aprsspec@tappr.org>; Wed, 17 Apr 2002 19:57:18 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Wed, 17 Apr 2002 20:09:58 -0400
Subject: [aprsspec] ADMIN: reply survey results
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-74800-2002.04.17-20.29.10--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0

Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <B8E38716.39B9%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id TAA07555

The response to the >reply surveys< has trickled down to less than none, so the survey is now closed and the results are, as follows:

By a 2:1 margin, the folks responding to the survey prefer that replies go to the list. Therefore, I will change the settings of APRSSPEC, APRSSIG, and HTAPRS to reflect the results of the survey immediately..

By the way, the other TAPR SIGs I administer (APRSSAT and MIC-E) already send replies to the list.

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 18 09:26:24 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA26020
for <lyris.aprsspec@tappr.org>; Thu, 18 Apr 2002 09:26:19 -0500 (CDT)
Message-Id: <LYR11589-74911-2002.04.18-09.59.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Thu, 18 Apr 2002 07:25:31 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Duplicate Query Criterion?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
X-Message-Id: <103130300b8e486be6f1e@[198.145.251.114]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello, List ...

I've just come to the realization that query response is more complex than it might first seem. There are all of those duplicate packets arriving by different digi paths. You don't want to respond to every one, yet you do want to respond to a valid repeat query from the same station.

So, what criterion is used to distinguish between multiple packets arriving by different paths and a repeat query? Time? If so, how long? 1 minute? 2? 5?

Many thanks to all of you...

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 18 09:45:47 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA27955
for <lyris.aprsspec@tappr.org>; Thu, 18 Apr 2002 09:45:46 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 Apr 2002 10:40:48 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Duplicate Query Criterion?
In-Reply-To: <LYR11586-74911-2002.04.18-09.59.47--

bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-74933-2002.04.18-10.17.07--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
X-Message-Id: <Pine.GS0.4.44.0204181035260.27629-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 18 Apr 2002, Jim Wagner wrote:

> So, what criterion is used to distinguish between multiple [queries]
> arriving by different paths and a repeat query? Time? If so, how long? 1
> minute? 2? 5?

Since a QUERY sets a random 2 minute random number timer in all
respondents, then any multiple queries within that window only just
regeenerate the random transmit time and so there are no additional
responses generated unless the random response has already responded.

That is how the QUERY resposne system was designed. I have no idea if all
client software implemtented it properly.

But since a QUERY tells everyone to respond, then we sure want to minimize
those. I would say only once every 3 to 5 minteus would be about right.
what woiuld be ideal (but I didnt do it) would be to for the clients to
then respos as above, but then OBSERVE if they in fact were digipeated.
If they were, then they should not respond again for say 5 minutes ... but
if they did not hear themselves then they should be armed to respond
immediatly to the next query o rsomething like that...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 18 16:19:52 2002

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id QAA22169
for <lyris.aprsspec@tapir.org>; Thu, 18 Apr 2002 16:19:51 -0500 (CDT)
X-Sent: 18 Apr 2002 21:17:28 GMT
Message-ID: <LYR11589-75036-2002.04.18-16.53.24--
lyris.aprsspec#tapir.org@lists.tapir.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
References: <LYR11698-74911-2002.04.18-09.59.47--
kd4rdb#netzero.com@lists.tapir.org>
Subject: [aprsspec] Re: Duplicate Query Criterion?
Date: Thu, 18 Apr 2002 17:17:35 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
X-Message-Id: <0b8b01c1e71e\$762536b0\$2902a8c0@Steph>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Don't most widen-n digi's assume a dupe time of 30 seconds? Ie, you can't send the same packet twice in less than 30 seconds. So IMHO, all queries from a given station should arrive within 30 seconds of one another. Any greater than that, consider it two queries.

Wes

----- Original Message -----

From: "Jim Wagner" <wagnerj@proaxis.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Sent: Thursday, April 18, 2002 10:25 AM
Subject: [aprsspec] Duplicate Query Criterion?

> Hello, List ...

>

> I've just come to the realization that query response is more complex than
> it might first seem. There are all of those duplicate packets arriving by
> different digi paths. You don't want to respond to every one, yet you do

> want to respond to a valid repeat query from the same station.
>
> So, what criterion is used to distinguish between multiple packets
arriving
> by different paths and a repeat query? Time? If so, how long? 1 minute? 2?
> 5?
>
> Many thanks to all of you...
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: kd4rdb@netzero.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Apr 18 17:04:36 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA24248
for <lyris.aprsspec@tappr.org>; Thu, 18 Apr 2002 17:04:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 18 Apr 2002 18:02:41 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Duplicate Query Criterion?
In-Reply-To: <LYR11586-75036-2002.04.18-16.53.24--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-75055-2002.04.18-17.37.54--

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
X-Message-Id: <Pine.GSO.4.44.0204181800480.21673-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 18 Apr 2002, Wes Johnston wrote:

> Don't most widen-n digi's assume a dupe time of 30 seconds? Ie, you can't
> send the same packet twice in less than 30 seconds. So IMHO, all queries
> from a given station should arrive within 30 seconds of one another. Any
> greater than that, consider it two queries.

But if every station on frequency responds the first time (how many
hundred is that?) do we really want those same hundreds of TNC's all
responding to another QUERY only 30 seconds later? I strongly think not.

The original APRSdos defined the query response window to be 2 minutes or
longer..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 20 18:19:19 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA24313
for <lyris.aprsspec@tapr.org>; Sat, 20 Apr 2002 18:19:17 -0500 (CDT)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: <aprsspec@lists.tapr.org>
Date: Sat, 20 Apr 2002 19:22:37 -0400
In-Reply-To: <LYR22299-74073-2002.04.14-10.18.18--
jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
Mime-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-75439-2002.04.20-18.53.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA24313

Look like I am not to late yet for this one...

reply should go to the sender, reply all should go to the sender and the SIG.
In other words, just like it is now.

See the outrage on the other list if you need reasons.

-Jeff

P.S. A few of you voting for the default reply to go to the public SIG better
think about what you are asking for as I see some of you on APRSSIG
complaining about this very change you seem to be asking for here.

On Sun, 14 Apr 2002 10:44:25 -0400, Stan Horzepa wrote:

>When you reply to a message on this SIG, the SIG software is set up
>so that
>you end up replying to the person that posted the message. Your
>reply will
>not be posted to the SIG unless you Reply-To-All or you add the SIG
>email
>address in the TO: field of your message.

>Is this the way you like it? Many other SIGs including two others I
>administer are set up to reply to the SIG rather than to the person
>who
>posted the message. Would you prefer this option?

>Let me know if you would prefer to reply to the SIG or reply to the
>person
>who posted the message. The majority rules!

>73,
>
>Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 20 21:48:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA04758
for <lyris.aprsspec@tapr.org>; Sat, 20 Apr 2002 21:48:05 -0500 (CDT)
Message-ID: <LYR11589-75463-2002.04.20-22.22.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Patrick Karp" <pkarp@conwaycorp.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: <aprsspec@lists.tapr.org>
References: <LYR27202-75439-2002.04.20-18.53.13--
pkarp#conwaycorp.net@lists.tapr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
Date: Sat, 20 Apr 2002 21:45:11 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
X-Message-Id: <001d01c1e8de\$8f0110c0\$6f01a8c0@patslaptop>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hmmm it looks to me like right now it does not matter if you reply or
reply all it still goes to the same address. To tell you the truth I
always thought Reply All meant to sent to you whole mailing list so I
never used it. hehe But to play it save I still say us the Reply to

send to the list. If the topic gets off subject or personal then you can use the personal email address. Other wise I think others might be able to learn from discussions that list members have on the list!

----- Original Message -----

From: "Jeff King" <jeff@aerodata.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Cc: <aprsspec@lists.tapr.org>

Sent: Saturday, April 20, 2002 6:22 PM

Subject: [aprsspec] Re: ADMIN: replying to this SIG

Look like I am not to late yet for this one...

reply should go to the sender, reply all should go to the sender and the SIG.

In other words, just like it is now.

See the outrage on the other list if you need reasons.

-Jeff

P.S. A few of you voting for the default reply to go to the public SIG better

think about what you are asking for as I see some of you on APRSSIG complaining about this very change you seem to be asking for here.

On Sun, 14 Apr 2002 10:44:25 -0400, Stan Horzepa wrote:

>When you reply to a message on this SIG, the SIG software is set up
>so that

>you end up replying to the person that posted the message. Your
>reply will

>not be posted to the SIG unless you Reply-To-All or you add the SIG
>email

>address in the TO: field of your message.

>Is this the way you like it? Many other SIGs including two others I
>administer are set up to reply to the SIG rather than to the person
>who

>posted the message. Would you prefer this option?

>Let me know if you would prefer to reply to the SIG or reply to the
>person

>who posted the message. The majority rules!

>73,
>
>Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: pkarp@conwaycorp.net
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator:
wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 20 22:04:37 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA05437
for <lyris.aprsspec@tappr.org>; Sat, 20 Apr 2002 22:04:35 -0500 (CDT)
Message-ID: <LYR11589-75468-2002.04.20-22.38.36--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Patrick Karp" <pkarp@conwaycorp.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR27202-75439-2002.04.20-18.53.13--
pkarp#conwaycorp.net@lists.tappr.org>
Subject: [aprsspec] Re: ADMIN: replying to this SIG
Date: Sat, 20 Apr 2002 22:01:43 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

Reply-To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
X-Message-Id: <003501c1e8e0\$de217ee0\$6f01a8c0@patslaptop>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

LOL I used the reply all and got a message back stating that my message was not posted because the first line was identical to another one of my recent post. The reason for this is that by using reply all, I was actually sending the message three times to the same address. hehe I guess I was right all along to avoid using the reply all. I'm sure I can change settings someplace to fix this problem. But whatever settings I'm using are default. So I believe it is best to use the simply reply button to post messages to this SIG.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Apr 21 09:02:04 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA15172
for <lyris.aprsspec@tappr.org>; Sun, 21 Apr 2002 09:02:02 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.0.0.1331
Date: Sun, 21 Apr 2002 09:59:20 -0400
Subject: [aprsspec] ADMIN: Reply and Reply To All
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-75569-2002.04.21-09.34.18--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <B8E83DF8.3C8F%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

After experimenting with various combinations of SIG software settings, it is evident that the SIG software cannot be set up to reply to the SIG without losing the convenience of replying to the original author of a

message. Therefore, the SIG software is now set up to perform as follows:

REPLY sends your reply to the originator of the message

REPLY TO ALL sends your reply to the SIG and the originator of the message

Note that I provide no guarantees how these settings will interact with the settings of your email software. However, I believe that this combination of settings will work correctly with most email software.

I appreciate your patience during the past week as I experimented with the SIG software. There is no way to experiment off-line, so you all were guinea pigs during these experiments. I apologize for that.

I consider this matter closed and off-topic on the SIG. If you wish to discuss this matter with me further, please do so directly and spare the SIG.

Thanks for your cooperation,

Stan, WA1LOU, SIG administrator

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 23 00:22:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA08545
for <lyris.aprsspec@tapr.org>; Tue, 23 Apr 2002 00:22:46 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-75905-2002.04.23-00.56.44--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Mon, 22 Apr 2002 22:22:19 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] APRSO Object/Item?
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Jim Wagner <wagnerj@proaxis.com>

X-Message-Id: <103130300b8ea9f8720a9@[198.145.251.22]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, Group -

For the purposes of an ?APRSO query, does a station with an item respond?

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 23 07:48:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA09553
for <lyris.aprsspec@tapr.org>; Tue, 23 Apr 2002 07:48:28 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 23 Apr 2002 08:47:51 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRSO Object/Item?
In-Reply-To: <LYR11586-75905-2002.04.23-00.56.44--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-75942-2002.04.23-08.22.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0204230847300.16456-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 22 Apr 2002, Jim Wagner wrote:

> For the purposes of an ?APRSO query, does a station with an item respond?

I would think so.
de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Apr 24 10:22:20 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA26337
for <lyris.aprsspec@tapr.org>; Wed, 24 Apr 2002 10:22:14 -0500 (CDT)
Date: Wed, 24 Apr 2002 11:21:33 -0400
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Digital BASH Update
Message-ID: <LYR11589-76151-2002.04.24-10.56.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: John Ackermann N8UR <jra@febo.com>
X-Message-Id: <12010740.1019647293@WUSJA129861-8HP>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

We're very happy to announce that Bdale Garbe, KB0G, will be the keynote speaker at the TAPR/MVFMA Digital BASH on Friday evening at Hamvention.

Bdale is one of the long-time "good guys" in the digital radio and amateur satellite worlds. He was in the middle of the early work on KA9Q's "NET" and "NOS" programs, pioneered megabit-rate packet radio, and in the satellite world was heavily involved in the RUDAK and AO-40 GPS experiments. Back in the Old Days, he was a board member and Vice President of TAPR, and remains one of TAPR's best friends. On a different front, Bdale was just elected as Debian Project Leader, so he now oversees one of the major Linux distributions -- and the one that is by far the most ham-friendly. Bdale works in the Linux development group at HP, and in his spare (?) time does VHF/UHF/microwave contesting and roaming.

Bdale's talk will blend all of these interests into an entertaining and informative presentation titled "From Bits in the Basement to Debian -- and Back Again".

You can find more information about the Digital BASH and TAPR's other Hamvention activities at <http://www.tapr.org/tapr/dayton/>.

See you there!

73,
John

John Ackermann	N8UR	jra@febo.com	http://www.febo.com
President, TAPR		n8ur@tapr.org	http://www.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 26 06:30:06 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA13897
for <lyris.aprsspec@tapr.org>; Fri, 26 Apr 2002 06:30:04 -0500 (CDT)
Mime-Version: 1.0
X-Sender: ksproul@vger.rutgers.edu (Unverified)
Message-Id: <LYR11589-76625-2002.04.26-07.04.14--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 26 Apr 2002 07:28:24 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@vger.rutgers.edu>
Subject: [aprsspec] Fwd: Your confirmation is needed (ok 11588)
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Keith Sproul <ksproul@vger.rutgers.edu>
X-Message-Id: <a05100311b8eee999f20a@[165.230.133.70]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Either someone tried to un-subscribe me from this list, or this stupid KLEZ virus caused this...

I am more inclined to believe that it was the virus, but if someone actually did try, I would be very upset..

Keith Sproul

>X-Lyris-Type: unsub-conf-req
>From: Lyris <unsubscribe-confirm@lists.tapr.org>
>Reply-To: Lyris <unsubscribe-confirm@lists.tapr.org>
>To: ksproul@vger.rutgers.edu
>Subject: Your confirmation is needed (ok 11588)
>Date: Fri, 26 Apr 2002 06:40:40 -0600
>
>Your email address 'ksproul@vger.rutgers.edu' has been submitted to be
>unsubscribed from the 'aprsspec' mailing list.
>
>This unsubscribe command requires your confirmation that you want to be
>unsubscribed.
>
>To confirm that you do want to unsubscribe, reply to this message so that
>the words "ok 11588" appear somewhere on the subject line.
>
>Make sure that your reply message is addressed to
>unsubscribe-confirm@lists.tapr.org
>
>You will receive notification that your confirmation has been received, and
>that you have been unsubscribed.
>
>If you do not want to unsubscribe, do nothing. You will be kept on the
>mailing list.
>
>---

--

Keith Sproul Ham Radio WU2Z
ksproul@vger.rutgers.edu 732 821-4828

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 26 08:29:41 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA18565
 for <lyris.aprsspec@tapr.org>; Fri, 26 Apr 2002 08:29:37 -0500 (CDT)
Date: Fri, 26 Apr 2002 08:31:56 -0500
From: Dan <starkfolks@comcast.net>
Subject: [aprsspec] RE: Fwd: Your confirmation is needed (ok 11588)
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-id: <LYR11589-76641-2002.04.26-09.03.41--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: TEXT/PLAIN
Content-transfer-encoding: 7BIT
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Dan <starkfolks@comcast.net>
X-Message-Id: <01C1ECFC.D43150C0.starkfolks@comcast.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Some how I am receiving APRS bulletins... When I have unsubscribe...

Can someone unsubscribe me?

-----Original Message-----

From: Keith Sproul [SMTP:ksproul@vger.rutgers.edu]
Sent: Friday, April 26, 2002 6:28 AM
To: APRS Spec Discussion List
Subject: [aprsspec] Fwd: Your confirmation is needed (ok 11588)

Either someone tried to un-subscribe me from this list, or this
stupid KLEZ virus caused this...

I am more inclined to believe that it was the virus, but if someone

actually did try, I would be very upset..

Keith Sproul

```
>X-Lyris-Type: unsub-conf-req
>From: Lyris <unsubscribe-confirm@lists.tapr.org>
>Reply-To: Lyris <unsubscribe-confirm@lists.tapr.org>
>To: ksproul@vger.rutgers.edu
>Subject: Your confirmation is needed (ok 11588)
>Date: Fri, 26 Apr 2002 06:40:40 -0600
>
>Your email address 'ksproul@vger.rutgers.edu' has been submitted to be
>unsubscribed from the 'aprsspec' mailing list.
>
>This unsubscribe command requires your confirmation that you want to be
>unsubscribed.
>
>To confirm that you do want to unsubscribe, reply to this message so that
>the words "ok 11588" appear somewhere on the subject line.
>
>Make sure that your reply message is addressed to
>unsubscribe-confirm@lists.tapr.org
>
>You will receive notification that your confirmation has been received, and
>that you have been unsubscribed.
>
>If you do not want to unsubscribe, do nothing. You will be kept on the
>mailing list.
>
>---
```

```
--
Keith Sproul           Ham Radio WU2Z
ksproul@vger.rutgers.edu 732 821-4828
```

```
---
You are currently subscribed to aprsspec as: starkfolks@comcast.net
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
```

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 26 16:10:41 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA18204
for <lyris.aprsspec@tapr.org>; Fri, 26 Apr 2002 16:10:41 -0500 (CDT)
Message-ID: <LYR11589-76706-2002.04.26-16.44.54--
lyris.aprsspec@lists.tapr.org>
Date: Fri, 26 Apr 2002 15:10:29 -0600
From: KC7ZRU - Tate <kc7zru@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Your confirmation is needed (ok 11588)
References: <LYR19726-76641-2002.04.26-09.03.41--kc7zru@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: KC7ZRU - Tate <kc7zru@arrl.net>
X-Message-Id: <3CC9C245.F1BA8220@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Please read the very last paragraph at the bottom of this message for
unsubscribe instructions

Dan wrote:

>
> Some how I am receiving APRS bulletins... When I have unsubscribe...
>
> Can someone unsubscribe me?
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 27 00:45:44 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA12896
for <lyris.aprsspec@tapr.org>; Sat, 27 Apr 2002 00:45:43 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-76760-2002.04.27-01.19.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Fri, 26 Apr 2002 22:44:58 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Object Timestamp optional?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Jim Wagner <wagnerj@proaxis.com>
X-Message-Id: <103130301b8efe7977039@[198.145.251.36]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello List...

On page 57, near the beginning of the chapter on Objects and Items, it the spec says:

"Object Reports specify an Object's position, can have an optional timestamp, ..."

On page 58, the spec says, just above the format diagram, "An Object always has a timestamp".

Could someone enlighten me as to which is correct?

Thanks to you all,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 27 08:22:41 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA11840
for <lyris.aprsspec@tapr.org>; Sat, 27 Apr 2002 08:22:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 27 Apr 2002 09:22:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Object Timestamp optional?
In-Reply-To: <LYR11586-76760-2002.04.27-01.19.42--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-76792-2002.04.27-08.56.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0204270920050.26887-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 26 Apr 2002, Jim Wagner wrote:

> On page 57, near the beginning of the chapter on Objects and Items, it the
> spec says:
>
> "Object Reports specify an Object's position, can have an optional
> timestamp, ..."

That line is incorrect for an APRS OBJECT. But for the use of the generic
term "object" which is something on an APRS map, then it can be an ITEM
which is the same thing without a timestamp.

Bob

>

> On page 58, the spec says, just above the format diagram, "An Object always
> has a timestamp".
>
> Could someone enlighten me as to which is correct?
>
> Thanks to you all,
>
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 2 19:39:39 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA19278
for <lyris.aprsspec@tappr.org>; Thu, 2 May 2002 19:39:34 -0500 (CDT)
Date: Thu, 02 May 2002 20:26:04 -0400
From: "John R. Ackermann" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Spring _Packet_Status_Register_ Available Online
Message-ID: <LYR11589-77567-2002.05.02-20.11.39--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "John R. Ackermann" <jra@febo.com>
X-Message-Id: <457392225.1020371164@[192.168.1.26]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

As the subject says... the new issue of TAPR's journal, the
_Packet_Status_Register_, is now available online. You can go to
<http://www.tappr.org/tappr/html/Fpsr.html>, or obtain it via ftp from
ftp://ftp.tappr.org/psr/Spring_83_2002.pdf. You'll need Adobe Acrobat or
other PDF file reader to view the document.

Stan Horzepa, WA1LOU, has taken the reins as the PSR's editor, and I'd like
to thank him for his great work on this issue. Please send comments,
suggestions, or -- best of all -- articles to Stan at psr@tappr.org.

73,
John N8UR

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat May 4 23:41:26 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA03097
for <lyris.aprsspec@tappr.org>; Sat, 4 May 2002 23:41:23 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)

Message-Id: <LYR11589-77857-2002.05.05-00.15.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Sat, 4 May 2002 21:41:03 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Example correct?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Jim Wagner <wagnerj@proaxis.com>
X-Message-Id: <l03130300b8fa6677f3f5@[198.145.251.80]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello Spec Discussion List -

On page 61 of the spec, there is an example of a corridor which is as follows:

;FLIGHTPTH*4903.50N\07201.75W1610/310{100}

Now, I hope I am interpreting things correctly, and it appears from the leading character (";") that this is an object. Objects are stated to require a time-stamp. This example does not appear to have a time-stamp.

Perhaps it was intended to be an item? That would change the leading character to ") ", I think. Either that, or a time-stamp should be added?

If someone else could confirm the analysis or explain why there is no problem, it would be greatly appreciated.

Many thanks,

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
ka7ehk@yahoo.com Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 5 08:39:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA02018
for <lyris.aprsspec@tapr.org>; Sun, 5 May 2002 08:38:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 5 May 2002 09:36:32 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Example correct?
In-Reply-To: <LYR11586-77857-2002.05.05-00.15.59--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-77876-2002.05.05-09.13.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205050936080.12829-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I agree. This is not right. It either needs to be an Item or it needs a time stamp...

bob

On Sat, 4 May 2002, Jim Wagner wrote:

> Hello Spec Discussion List -
>
> On page 61 of the spec, there is an example of a corridor which is as follows:
>
> ;FLIGHTPTH*4903.50N\07201.75W1610/310{100}
>
> Now, I hope I am interpreting things correctly, and it appears from the
> leading character (";") that this is an object. Objects are stated to

> require a time-stamp. This example does not appear to have a time-stamp.
>
> Perhaps it was intended to be an item? That would change the leading
> character to ")", I think. Either that, or a time-stamp should be added?
>
> If someone else could confirm the analysis or explain why there is no
> problem, it would be greatly appreciated.
>
> Many thanks,
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 5 10:51:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA09012
for <lyris.aprsspec@tapr.org>; Sun, 5 May 2002 10:51:44 -0500 (CDT)

From: "Cap Pennell" <cap@cruzio.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Example correct?
Date: Sun, 5 May 2002 08:51:26 -0700
Message-ID: <LYR11589-77884-2002.05.05-11.26.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11639-77876-2002.05.05-09.13.14--ke6afe#arrrl.net@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Cap Pennell" <cap@cruzio.com>
X-Message-Id: <GLEJKBIIJPFKFNNKLLDDNAE0FCJAA.cap@cruzio.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I assume (and hope) this item _has_ now been added to _the list_ of tasks that faces the working group in their eventual production of the next version of the APRS Protocol. Bob, you're still maintaining that list aren't you? Is anybody else helping to maintain a copy of that list?
73, Cap KE6AFE

> -----Original Message-----

> From: bounce-aprsspec-11639@lists.tapr.org
> [mailto:bounce-aprsspec-11639@lists.tapr.org] On Behalf Of Bob Bruninga
> Sent: Sunday, May 05, 2002 6:37 AM
> To: APRS Spec Discussion List
> Subject: [aprsspec] Re: Example correct?

>

>

> I agree. This is not right. It either needs to be an Item or it needs a
> time stamp...

>

> bob

>

> On Sat, 4 May 2002, Jim Wagner wrote:

>

> > Hello Spec Discussion List -

> >

> > On page 61 of the spec, there is an example of a corridor which
> is as follows:
> >
> > ;FLIGHTPTH*4903.50N\07201.75W1610/310{100}
> >
> > Now, I hope I am interpreting things correctly, and it appears from the
> > leading character (";") that this is an object. Objects are stated to
> > require a time-stamp. This example does not appear to have a time-stamp.
> >
> > Perhaps it was intended to be an item? That would change the leading
> > character to ") ", I think. Either that, or a time-stamp should be added?
> >
> > If someone else could confirm the analysis or explain why there is no
> > problem, it would be greatly appreciated.
> >
> > Many thanks,
> >
> > Jim Wagner

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 6 03:20:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA26654
for <lyris.aprsspec@tapr.org>; Mon, 6 May 2002 03:20:21 -0500 (CDT)
Message-ID: <LYR11589-77973-2002.05.06-03.54.59--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Mon, 6 May 2002 10:20:06 +0200 (CEST)
Subject: [aprsspec] question
From: "Ben Stienstra" <bennys@xs4all.nl>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
In-Reply-To: <LYR0-1020675110--311-lyris-admin@lists.tapr.org>
References: <LYR0-1020675110--311-lyris-admin@lists.tapr.org>
Reply-To: "Ben Stienstra" <bennys@xs4all.nl>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

X-Message-Id: <9829.193.67.79.146.1020673206.squirrel@webmail.xs4all.nl>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hi Group,
Is APRS protocol Specification Version 1.0.1 still the most recent one?

73's,
Ben Stienstra
PD2BS

--
mobile: +31-6-41218765
home: +31-10-5902257

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 16 00:44:26 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA22228
for <lyris.aprsspec@tappr.org>; Thu, 16 May 2002 00:44:14 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-79320-2002.05.16-01.19.11--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 15 May 2002 22:43:30 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Area objects?
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Jim Wagner <wagnerj@proaxis.com>
X-Message-Id: <103130300b908f42236c2@[198.145.251.49]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Hello, Spec List -

I have some rather practical questions about area objects.

(1) What is the orientation of the triangle(s) within the area rectangle? I would assume that the base is coincident with the south edge of the box and the apex opposite the base is at the center of the north edge. But, there are many (infinite?) number of other possible orientations. Can someone specify what the expected orientation is?

(2) What is the color of an unfilled object? Is it specified by the object color number or does that apply only to fill?

(3) In the case of filled objects, is there a contrasting outline around the outer edge of the object or does the color go right out to the vertical and horizontal extent of the object?

(4) In the color descriptions, does "low intensity" mean dark or does it mean transparent? If one applies a numeric range of 0 to 255 to each color component (a common convention), would "high intensity" red correspond to (r,g,b) = (255,0,0) and "low intensity" red correspond to (r,g,b) = (128,0,0)?

(5) What is the distinction between high intensity gray and low intensity black?

For that matter, how can one have "low intensity black" if black is the absence of any color components (that is, r,g,b = 0,0,0)?

(6) In the case of a corridor, does the corridor form a true diagonal rectangle and thus, extend outside of the extent box at each end? Or, is the corridor trimmed at the edges of the extent box such that the corridor is pointed at each end?

Many thanks to everyone...

Jim Wagner
Oregon Research Electronics

```
-----  
wagnerj@proaxis.com      Tangent, Oregon 97389  
KA7EHK@KC7KFE.OR.USA.NOAM  near Corvallis OR, home of  
ka7ehk@yahoo.com         Oregon State University  
-----
```

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 16 00:52:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA22328
for <lyris.aprsspec@tapr.org>; Thu, 16 May 2002 00:52:32 -0500 (CDT)
X-Sender: wagnerj@proaxis.com (Unverified)
Message-Id: <LYR11589-79321-2002.05.16-01.27.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Date: Wed, 15 May 2002 22:51:20 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Jim Wagner <wagnerj@proaxis.com>
Subject: [aprsspec] Another Area Object Question
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Jim Wagner <wagnerj@proaxis.com>
X-Message-Id: <103130300b908f8ae4882@[198.145.251.26]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hello, List -

Sorry to add another to an already long list of questions, but...

(7) How is a circle fitted into an extent box if the specified extent box is not square? Is it sized as the largest circle to fit the box and then "justified" to the top and left edges of the box?

Again, many thanks....

Jim Wagner
Oregon Research Electronics

wagnerj@proaxis.com	Tangent, Oregon 97389
KA7EHK@KC7KFE.OR.USA.NOAM	near Corvallis OR, home of
ka7ehk@yahoo.com	Oregon State University

A computer without Windows is like a cake without mustard. - anonymous

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 20 07:42:53 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11129
for <lyris.aprsspec@tapr.org>; Mon, 20 May 2002 07:42:44 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 May 2002 08:42:00 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Area objects?
In-Reply-To: <LYR11586-79320-2002.05.16-01.19.11--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-79847-2002.05.20-08.17.49--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205200839440.25024-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 15 May 2002, Jim Wagner wrote:

> (1) What is the orientation of the triangle(s) within the area rectangle? I
> would assume that the base is coincident with the south edge of the box and
> the apex opposite the base is at the center of the north edge. But, there
> are many (infinite?) number of other possible orientations. Can someone
> specify what the expected orientation is?

It is an isosceles triangle with the diagonal of the BOX being the right side.

>
> (2) What is the color of an unfilled object? Is it specified by the object
> color number or does that apply only to fill?

Yes

>
> (3) In the case of filled objects, is there a contrasting outline around
> the outer edge of the object or does the color go right out to the vertical
> and horizontal extent of the object?

Probably your choice. APRSdos makes them the same.

>
> (4) In the color descriptions, does "low intensity" mean dark or does it
> mean transparent? If one applies a numeric range of 0 to 255 to each color
> component (a common convention), would "high intensity" red correspond to
> (r,g,b) = (255,0,0) and "low intensity" red correspond to (r,g,b) =
> (128,0,0)?

Its the original 16 colors of EGA. I donno any more...

>
> (5) What is the distinction between high intensity gray and low intensity
> black?
> For that matter, how can one have "low intensity black" if black is the
> absence of any color components (that is, r,g,b = 0,0,0)?
>
> (6) In the case of a corridor, does the corridor form a true diagonal
> rectangle and thus, extend outside of the extent box at each end? Or, is
> the corridor trimmed at the edges of the extent box such that the corridor
> is pointed at each end?

It is a full wide corridor so it is a slanted rectangle...

Bob

>
> Many thanks to everyone...

>
>
>
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----

> A computer without Windows is like a cake without mustard. - anonymous

>

>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Mon May 20 07:47:21 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id HAA11560
for <lyris.aprsspec@tapir.org>; Mon, 20 May 2002 07:47:18 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 20 May 2002 08:46:34 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: Another Area Object Question
In-Reply-To: <LYR11586-79321-2002.05.16-01.27.32--
bruninga#nadm.navy.mil@lists.tapir.org>
Message-ID: <LYR11589-79848-2002.05.20-08.22.34--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>

X-Message-Id: <Pine.GS0.4.44.0205200842530.25024-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 15 May 2002, Jim Wagner wrote:

> Hello, List -
>
> Sorry to add another to an already long list of questions, but...
>
> (7) How is a circle fitted into an extent box if the specified extent box
> is not square? Is it sized as the largest circle to fit the box and then
> "justified" to the top and left edges of the box?

good question. In APRSdos, the starting point defines the northern
boundary line. The second point defines the CENTER. The radius is the
vertical distance.

I nvere noticed this u ntil you just asked, because I always click and
drag at a 45 degreer angle... So I tested it and the above is what I got.

Ignore typos...

bob

>
> Again, many thanks.... >
>
> Jim Wagner
> Oregon Research Electronics
> -----
> wagnerj@proaxis.com Tangent, Oregon 97389
> KA7EHK@KC7KFE.OR.USA.NOAM near Corvallis OR, home of
> ka7ehk@yahoo.com Oregon State University
> -----
> A computer without Windows is like a cake without mustard. - anonymous
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>

ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 21 07:58:47 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA18508
for <lyris.aprsspec@tapr.org>; Tue, 21 May 2002 07:58:41 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 21 May 2002 08:58:01 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] APRS TOCALLS (May 2002)
Message-ID: <LYR11589-80152-2002.05.21-08.33.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205201925180.16966-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I think this is the latest LIST of APRS TOCALLS that I have. I have added two additions if there are no objections:

APDTxx for APRS touch tone (DTMF)
APOxx for APRSpoint

This list will be updated in real time as people make Email reservations when such requests are made public and when there is no conflict. I will maintain the list and issue periodic copies on the APRSSPEC list when needed. Official action by the WG is not needed except to resolve

conflicts.

- > APA A-Filter, Alinco, etc
- > APAFxx AFilter.
- > APAGxx AGATE
- > APAXxx AFilterX.
- > APAHxx AHub
- > APB avail
- > APC Windows CE, etc
- > APD APRSd, etc
 - APDTxx APRStouch Tone (DTMF)
- > APE avail
- > APF avail
- > APG Gates, etc
- > APH HamHud, etc
- > API Icom, etc
- > APICQx for ICQ
- > APJ JavaAPRS,JeAPRS,etc
- > APK Kenwood, etc
- > APK0xx THD7's
- > APK1xx D700's
- > APL Liunx applications
- > APM MacAPRS, etc
- > APN Network nodes, digis, etc
- > APO APRSpoint
- > APP pocketAPRS, etc
- > APQ avail
- > APR APR8xx APRSdos,etc
- > APRDxx APRSdata, APRSdr
- > APRKxx APRStk
- > APRS Generic, digis (obsolete. Digis should use APNxx instead)
- > APRXxx APRSmax
- > APRTLm used my MIM's and Mic-lites, etc
- > APS APRS+SA, etc
- > APT TinyTrack
- > APTTxx Tiny Track
- > APT2xx Tiny Track II
- > APTAXx K4ATM's tiny track
- > APTV for ATV/APRN and SSTV applications
- > APU UView, etc
- > APU1xx UView 16 bit applications
- > APU2xx UView 32 bit apps
- > APV avail
- > APW WinAPRS, etc
- > APX Xaprs, etc
- > APY etc, Yeasu, etc
- > APZ Experimental
- > APZ0xx Xastir

> APZPAD Smart Palm

Due to the limited address space available, we ask that authors be conservative in their use of their address space and try to accomodate others desiring to use the same major address block where possible. If anyone needs a new series and if the subblock is already in use, then the WG would suggest that the requester coordinate with the other authors of that block to arrive at a mutually agreeable arrangement.

Requests for new addresses should be posted on the APRSSPEC list, and in the absence of any conflicts or contention, these requests will be accommodated where possible.

WB4APR, Bob

You are currently subscribed to aprsdev as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsdev-8585R@lists.tappr.org

You are currently subscribed to aprsdev as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsdev-8585R@lists.tappr.org

You are currently subscribed to aprsdev as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsdev-8585R@lists.tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 21 08:24:03 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA20587
for <lyris.aprsspec@tappr.org>; Tue, 21 May 2002 08:24:01 -0500 (CDT)
content-class: urn:content-classes:message

Subject: [aprsspec] RE: APRS TOCALLS (May 2002)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Tue, 21 May 2002 08:22:54 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80158-2002.05.21-08.59.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] APRS TOCALLS (May 2002)
Thread-Index: AcIAX3Vj9jIw19IURBmhfiAFMzXTTAAaijIg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB59@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA20587

As I am now the curator of javAPRS, you can reduce its requirements down to APJAx. javAPRS only uses this TOCALL when it is acting as a server such as I have set up to support the example pages. I recommend that JeAPRS be reduced to APJExx, but I leave that to the current author of that package.

FYI, javAPRSSrvr (not to be confused with javAPRS) does not require any TOCALL support as it "does not exist" to the RF world. It has no IGate or client functions so it does not generate any APRS packets.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Bob Bruninga [<mailto:bruninga@usna.edu>]
> Posted At: Tuesday, May 21, 2002 8:00 AM
> Subject: [aprsspec] APRS TOCALLS (May 2002)
>
> > APJ JavaAPRS,JeAPRS,etc

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 21 10:55:15 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29744
for <lyris.aprsspec@tapr.org>; Tue, 21 May 2002 10:55:09 -0500 (CDT)
Message-ID: <LYR11589-80206-2002.05.21-11.30.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 21 May 2002 09:54:52 -0600
From: KC7ZRU - Tate <kc7zru@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALLS (May 2002)
References: <LYR19726-80152-2002.05.21-08.33.48--kc7zru@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: KC7ZRU - Tate <kc7zru@arrl.net>
X-Message-Id: <3CEA6DCC.233D81CE@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob - change xastir from APZ to APX. Xastir has been using APX for many
a moon now.

Xastir V1.1.2
APX112

<http://map.findu.com/kc7zru> for a live example

73

Bob Bruninga wrote:

```
>  
> > APX Xaprs, etc  
...  
> > APZ Experimental  
> > APZ0xx Xastir
```

--

Casper, WY | CARC Repeater
DN62tt | 146.940
"The Dungeon" online at <http://go.to/kc7zru>
"RTFM" is NOT a 'four letter' word!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 21 15:28:18 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA17494
for <lyris.aprsspec@tapr.org>; Tue, 21 May 2002 15:28:15 -0500 (CDT)
Date: Tue, 21 May 2002 13:28:06 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <archer@eskimo.com>
Subject: [aprsspec] I did _not_ propagate this one!
Message-ID: <LYR11589-80248-2002.05.21-16.03.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 21 May 2002 20:28:07.0658 (UTC)
FILETIME=[047DCCA0:01C20106]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.GS0.4.44.0205211326120.11964-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I just received a reject message from a spam filter somewhere out there. E-mail with a virus attached was received at that machine, and apparently came from my work address.

Since I can't get infected here through e-mail (I run Linux, not Windows!), I'm absolutely sure that this address is not sending out virus e-mail. My e-mail program does absolutely nothing with

attachments, scripts, etc.

It's likely that someone on a mailing list I subscribe to got infected with the W32/KLEZ virus (but not from me!). This virus finds addresses in the mailboxes and forges e-mail as if it came from those addresses.

Please run your virus scanners again people! Be wary of attachments, no matter who they came from.

I apologize if you get multiple copies of this because you're on more than one mailing list that I also subscribe to. I just want to keep my "good" name clean.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 21 15:32:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA17624
for <lyris.aprsspec@tapr.org>; Tue, 21 May 2002 15:32:00 -0500 (CDT)
Date: Tue, 21 May 2002 15:30:52 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: I did _not_ propagate this one!
In-reply-to: <LYR11608-80248-2002.05.21-16.03.37--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: Curt Mills <hacker@tc.fluke.com>, "Curt Mills, WE7U" <archer@eskimo.com>
Message-id: <LYR11589-80253-2002.05.21-16.06.52--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

Reply-To: David VanHorn <dvanhorn@cedar.net>
X-Message-Id: <5.1.0.14.2.20020521152935.01763c70@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 01:28 PM 5/21/2002 -0700, Curt Mills, WE7U wrote:

>I just received a reject message from a spam filter somewhere out
>there. E-mail with a virus attached was received at that machine,
>and apparently came from my work address.

I've had a few of these too, looks hoax-ish.
It talks about an infected email to someone I never heard of before, and
dosen't give any details about the email that would let me identify it.
I scanned here, nothing found.. (Eudora, and common sense..)

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue May 21 17:58:13 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA25361
for <lyris.aprsspec@tappr.org>; Tue, 21 May 2002 17:58:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 21 May 2002 18:57:17 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: TAPR APRS SIG <aprssig@lists.tappr.org>
Subject: [aprsspec] User defined APRS formats (May 2002)
Message-ID: <LYR11589-80282-2002.05.21-18.32.54--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205211853580.8835-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

APRS USER DEFINED DATA FORMATS LIST May 2002 (Previous was 26 Mar 2001)

HEADER	AUTHOR	DESCRIPTION
{Fnn	WB4APR	nn is a 2 byte descriptor of MITELE GPS data formats
{K1	WB4APR	"K" for Keps and "1" for NASA One line.
{K2n	WB4APR	For NASA two line elements. "n" is line 1 or 2.
{x1	J Bennet	for WX
{x2	J Bennet	for WX

Any more?

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Wed May 22 15:55:28 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id PAA15281
for <lyris.aprsspec@tapir.org>; Wed, 22 May 2002 15:55:27 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Wed, 22 May 2002 16:55:08 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] Questions on NOGATE, RFONLY and 3rd party stuff (fwd)
Message-ID: <LYR11589-80443-2002.05.22-16.30.43--
lyris.aprsspec@tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapir.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapir.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapir.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205221621530.1621-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Dale is working on APRSd and needs some up-to-date guidance..
So do I! So here are my replies to his questions based on my
current understandings:?

The RF-Inet-RF anti-loop mechanism should be checking for TCPIP and TCPXX
in the path and NOT be based on a total rejection of 3rd party packets...
(the current brute-force-dont-inject-any-3rdparty packets as a loop
filter is unnecessarily restrictive and kills all other potential uses
of the 3rd party packet as it was intended (ZIP-LAN for example)).

DISCUSSION: Dale notes that ON-AIR packet paths do not have TCPIP in
them... But Of course 3rd party messages have it in the encapsulated
path header after the "}". So, by "path" I mean the 3rd party
path, not the primary path header set in the TNC.

Yes, if TCPIP or TCPXX occurs ANYWHERE in the path of a 3rd party packet,
then THAT is the signal that it should not be taken back from RF back into
the internet. Actually if it is anywhere in the packet prior to the final
data field, then I would say do NOT inject it. With or without a *...

> Should the IGATE TNCs path have TCPIP in it?

I'd say no...

>Example From RF:

WA4DSY>APD215,N4NEQ-2,WIDE:}K4JCW>APRS,TCPIP*,WA4DSY*:@220820z3410.21N etc....

Yes, this PARTICULAR 3rd party packet should be ignored since it has TCPIP
in the 3rd party header...

> Also, is RFONLY an alternate to NOGATE or did it go away?

I dont know. Lets choose one (but I'd put them both in until we figure it
out)...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 22 17:28:12 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA21905
for <lyris.aprsspec@tapr.org>; Wed, 22 May 2002 17:28:07 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Wed, 22 May 2002 17:27:56 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80450-2002.05.22-18.03.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Thread-Index: AcIB0zF439eB85oRRIWdm7EBtE9sUgACo+BQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB6B@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id RAA21905

> -----Original Message-----

> From: Bob Bruninga [<mailto:bruninga@usna.edu>]
> Posted At: Wednesday, May 22, 2002 3:57 PM
> Subject: [aprsspec] Questons on NOGATE, RFONLY and 3rd party
> stuff (fwd)

>

> The RF-Inet-RF anti-loop mechanism should be checking for
> TCPIP and TCPXX
> in the path and NOT be based on a total rejection of 3rd
> party packets...
> (the current brute-force-dont-injest-any-3rdparty packets as a loop
> filter is unnecessarily restrictive and kills all other potential uses
> of the 3rd party packet as it was intended (ZIP-LAN for example).

I disagree that there is a reason for 3rd party packets to appear on

APRS-IS. Even ZIP-LAN should remove the third-party aspect of the packets if they are to be transported over APRS-IS.

> DISCUSSION: Dale notes that ON-AIR packet paths do not have TCPIP in
> them... But Of course 3rd party messages have it in the encapsulated
> path header after the "}". So, by "path" I mean the 3rd party
> path, not the primary path header set in the TNC.

Not necessarily true. Most IGate software have TCPIP as a default but nothing prevents TCPIP or TCPXX to be used on RF nor forces TCPIP or TCPXX to be used on the Internet.

> > Should the IGATE TNCs path have TCPIP in it?
>
> I'd say no...

But not guaranteed.

> > Also, is RFONLY an alternate to NOGATE or did it go away?

javAPRSSrvr gives the sysop the option to filter out packets with either RFONLY or NOGATE in the header.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed May 22 18:10:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA23429
for <lyris.aprsspec@tapr.org>; Wed, 22 May 2002 18:10:45 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Wed, 22 May 2002 18:09:31 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80455-2002.05.22-18.46.04-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Thread-Index: AcIB0zF439eB85oRRIWdm7EBtE9sUGACo+BQAAFScMA=
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB6C@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA23429

> I disagree that there is a reason for 3rd party packets to appear on
> APRS-IS. Even ZIP-LAN should remove the third-party aspect of the
> packets if they are to be transported over APRS-IS.

To clarify my position, I would like to add some more insight into my
thought process.

APRS-IS exists to provide interconnectivity between APRS RF networks.
One of the benefits of its current topology is to allow
interconnectivity of non-RF APRS clients. If, however, third-party
packets are allowed to traverse APRS-IS, those packets become useless to
the attached RF networks. The reason is the size and complexity of the
packets as they should be sent out to RF (a third-party packet within a
third-party packet). If they are sent out with the original header
simply replaced, then the meaning of the third-party packet might be
altered. If the packets are being injected from a non-RF environment,
then the injector should act in a similar manner to an IGate and not
inject third-party packets but inject the packets in their original
form.

APRS-IS server functions should be as transparent to the data as
possible. Dupe checking is a necessary requirement and requires that
the server be able to interpret the FROMCALL and, in javAPRSSrvr's case,
the TOCALL in the header. Further interpretation of the header or the
packet data can become overly burdensome. Let's keep the server
overhead to a minimum. The third-party filtering was made necessary
because some IGates pass them to the Internet from RF in error. What is
to keep those same IGates from using a VIA other than TCP/IP or TCPXX.
As long as we have to account for existing problems on APRS-IS, we need
to keep rudimentary filters such as this in place.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 05:04:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA01984
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 05:04:49 -0500 (CDT)
Message-ID: <LYR11589-80534-2002.05.23-05.40.08--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Thu, 23 May 2002 06:03:32 -0400
From: "E. Tupis" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RFONLY & NOGATE info
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "E. Tupis" <w2ev@rochester.rr.com>
X-Message-Id: <3CECB74.7EFE7E4@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

RFONLY is the same as NOGATE, in the APRS world. However...RFONLY is a BEACONet spec and the *only* alias used there for this function. If a software product developer wishes to have their product used in the BEACONet service, then it must recognize this alias.

Why? "Gate" means something else to the BEACONet service than it does in the APRS service. I'll explain more in a followup message a bit later but that should answer what folks were looking for originally.

By the way...RFONLY is used a *lot* by AX.25-based VHF Contest Rovers on BEACONet in order to assure they don't inadvertently violate contest rules by showing up on the Internet stream. The idea is that the

originating station should have the ability to clearly state how it wishes to have its signal processed by other stations.

Kind regards,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 08:44:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA08399
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 08:44:22 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 09:44:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
In-Reply-To: <LYR11586-80450-2002.05.22-18.03.32--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80556-2002.05.23-09.19.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205230934080.16680-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Wed, 22 May 2002, AE5PL Lists wrote:

> I disagree that there is a reason for 3rd party packets to appear on
> APRS-IS. Even ZIP-LAN should remove the third-party aspect of the
> packets if they are to be transported over APRS-IS.

Why?

3rd party is a legal legitimate pAPRS packet format for embedding packets within packets. It has ALL KINDS of applications:

- 1) ZIP-LAN packets when they get to RF
- 2) Any case of multiple applications sharing a single TNC
- 3) Any packets generated from TNC's not using KISS mode
- 4) APRStt packets
- 5) APRSdata packets serving up Satellite info
- 6) And I can think of many many more... anyplace where you want to use a TNC to serve up multiple sources of APRS packets...

I don't see why anyone would want to cripple the APRS system by insisting that only the APRSis can use 3rd party format and forceably EXCLUDE everyone else from using it. That is quite myopic... Just like with digipeater looping, the presence of TCPIP or TCPXX is the indicator that the packet has been through the APRS-IS and should therefore not be re-accepted into the system. This is the correct loop filter...

Excluding the universal 3rd party format from the IS is only a crutch and we should work away from that simplistic loop-filtering approach.

> Not necessarily true. Most IGate software have TCPIP as a default but
> nothing prevents TCPIP or TCPXX to be used on RF nor forces TCPIP or
> TCPXX to be used on the Internet.

I disagree. The APRS-IS spec (?) requires all packets that are gated from IS back to RF to have either TCPIP or TCPXX in them.

> But not guaranteed.

Then lets FIX any non-APRS-IS compliant programs...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 09:35:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10301
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 09:35:46 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 10:35:25 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff
In-Reply-To: <LYR11586-80455-2002.05.22-18.46.04--bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-80566-2002.05.23-10.11.01--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205230950250.16680-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 22 May 2002, AE5PL Lists wrote:

> > I disagree that there is a reason for 3rd party packets to appear on
> > APRS-IS. Even ZIP-LAN should remove the third-party aspect of the
> > packets if they are to be transported over APRS-IS.

Let me clarify why 3rd party is so valuable as a general APRS mechanism:
3rd party was DESIGNED so that any number of applications may share a
single TNC for their ON-AIR packets. Such as multiple PC's at an EOC or
event NET control tent... That means that the TNC has the path of
TNCALL>APRS,WIDE to put its packets on the air...

Now then, ANY number of laptops, or applications can be connected to the
same TNC and these ADDED applications only need to send }MYAP1>APRS:data
to the TNC to have it transmitted onto the air... Thus, the ON-AIR packet
from 4 different applications at the EOC all sharing the same TNC will
look like this on the air:

```
TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1
TNCALL>APRS,WIDE:}MYAP2>APX:this packet from application #2
TNCALL>APRS,WIDE:}MYAP3>APX:this packet from application #3
TNCALL>APRS,WIDE:}MYAP4>APX:this packet from application #4
```

I see no reason why we should insist that the APRS-IS ignore these packets
simply because they are 3rd party. This is denying APRS a tremendous
force-multiplier for APRS capability and applications..

> APRS-IS exists to provide interconnectivity between APRS RF networks.
> One of the benefits of its current topology is to allow
> interconnectivity of non-RF APRS clients. If, however, third-party
> packets are allowed to traverse APRS-IS, those packets become useless to
> the attached RF networks.

Why? I see no reason for that to be the case...

> The reason is the size and complexity of the packets as they should be
> sent out to RF (a third-party packet within a third-party packet).

I don't think size is an issue. 3rd party packets as I foresee their main application, never have anything but a FROM>TO header in the 3rd party part. And as we improve our networks, most USABLE paths of the source TNC's will only have one hop in them. Thus an on-air 3rd party in an IS-2-RF 3rd party may only add 10 bytes or so to the packet. This should not be a problem.

> altered. If the packets are being injected from a non-RF environment,
> then the injector should act in a similar manner to an IGate and not
> inject third-party packets but inject the packets in their original
> form.

I think this might be the key. Good idea... if an IGate needs to take a 3rd party packet as above which contains a message back to its local RF, then here are the rules I would use:

- 1) If any of the headers contain TCPIP or TCPXX then ignore it!
ELSE
- 2) Discard the on-air-TNC header and retain only the 3rd party portion.
- 3) Insert into this header the ",MYGATE*,I" IGate identification

- 4) If this packet needs to go back to RF for any reason, then the IS-2-RF Igate adds the usual TCPIP or TCPXX for transmission back to RF...

(but in my opinion, the way to do this is to abandon the TCPXX/TCPIP portion of the path, and simply mark the "I" with a "I*" to give the SAME meaning and without the long overhead... Thus the packet would do thusly:

```
On-RF: TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1
IS>in: MYAP1>APX,MYGATE*,I:this packet from application #1
The above packet is what everyone on the APRS-IS sees...
IS>RF: MYCALL>APRS,DIGIS:}MYAP1>APX,MYGATE*,I*:this packet from App #1
```

Here the "I*" tells everyone it has traversed the IS and that this packet should never again be re-injected back into the APRSIS...

> APRS-IS server functions should be as transparent to the data as
> possible.

Agree completely. That is why they should accept any ON-AIR 3rd party
format (that has not previously traversed the APRSIS)...

> overhead to a minimum. The third-party filtering was made necessary
> because some IGates pass them to the Internet from RF in error. What is
> to keep those same IGates from using a VIA other than TCPIP or TCPXX?

Compliance with the APRS-IS spec...

> As long as we have to account for existing problems on APRS-IS, we need
> to keep rudimentary filters such as this in place.

Agree, but only as an interim fix. We must have a plan, a goal, and we
must keep working toward that goal. The goal should be APRS-IS
transparency, and IGate APRS-IS SPEC compliance... Saying that we will
never allow 3rd party packets to traverse the APRS-IS because it is broken
should not be driving our future designs and new software.

I agree that new software has to have patches due to the existing
problems, but this should not prohibit it from attempting to implement the
proper implementation so that APRS-IS can live up to its full potential in
the future...

I like your idea of preserving only the 3rd party part of the packet
though the IS...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 09:50:13 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA11100
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 09:50:01 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questions on NOGATE, RFONLY and 3rd party stuff (fwd)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Thu, 23 May 2002 09:49:38 -0500

X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80570-2002.05.23-10.25.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Thread-Index: AcICYACSRTmdBq8ET9CE+aPdH/42DQABEPfQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB71@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA11100

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Thursday, May 23, 2002 8:45 AM
> Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd
> party stuff (fwd)
>
> 1) ZIP-LAN packets when they get to RF

If they become 3rd party when they hit RF, why should they be gated back through APRS-IS?

> 2) Any case of multiple applications sharing a single TNC

I have multiple applications using a single TNC and third-party packets are not used. Third-party packets, by definition, are packets that are being regenerated from another medium.

> 3) Any packets generated from TNC's not using KISS mode

???? My APRS+SA using a standard TNC doesn't generate third-party packets (unless they are IGate originated).

> 4) APRStt packets

I thought the intent of APRStt was to generate standard APRS packets. Why the third-party packet aspect?

> 5) APRSdata packets serving up Satellite info

Again, why does this data need to be encapsulated with an extra header (which is all that third-party packets do)?

> 6) And I can think of many many more... anyplace where you want to use
> a TNC to serve up multiple sources of APRS packets...

I disagree. Third-party packets are defined for "packets that are to be transported through third-party (i.e. non AX.25) networks, such as the Internet, and Ethernet LAN, or a direct wire connection." I fail to see how using a TNC with multiple applications causes this to occur.

> I don't see why anyone would want to cripple the APRS system

In fact, Bob, I ran an extensive study of APRS-IS this year and the only packets appearing as third-party packets were packets being improperly gated from RF to the Internet. According to Chapter 17 of the APRS specification, the only anticipated uses for third-party packets are for network tunneling and third-party digipeating.

> I disagree. The APRS-IS spec (?) requires all packets that are gated
> from IS back to RF to have either TCPIP or TCPXX in them.

As you know, there is no APRS-IS specification.

I recommend that we adhere to the APRS specification and keep third-party packets in their original intent: to provide a means for packets to be delivered from one APRS RF network to another via a non-AX.25 medium while holding the original packet's source path header and data.

While the capability to have multiple layers of third-party headers is within the bounds of the APRS specification, I would say that adding this level of complexity to APRS-IS begins to move the APRS-IS out of the domain of providing an internetworking tool between APRS RF networks and moves it into the realm of being a rudimentary AX.25 packet router. Allowing third-party packets to traverse the APRS-IS greatly increases the complexity of dupe check algorithms (you can't dupe check on the main packet header any more) and packet interpretation algorithms (same issue). If third-party packets are allowed on APRS-IS, you are essentially trying to allow multiple levels of network tunneling to be carried over APRS-IS. I can speak from experience in saying that the current architecture of APRS-IS could be greatly compromised if that were to happen.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>

mailto:pete@ae5pl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 10:09:42 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA12010
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 10:09:34 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Thu, 23 May 2002 10:09:23 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80576-2002.05.23-10.44.58--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff
Thread-Index: AcICZ0B3srS9tEU2Rhej9aTIw3bLugAAjvEw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB72@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA12010

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]

> Posted At: Thursday, May 23, 2002 9:37 AM

> Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd

> party stuff

>

> Let me clarify why 3rd party is so valuable as a general APRS

> mechanism:

> 3rd party was DESIGNED so that any number of applications may share a

> single TNC for their ON-AIR packets. Such as multiple PC's

> at an EOC or
> event NET control tent... That means that the TNC has the path of
> TNCALL>APRS,WIDE to put its packets on the air...

?????? Why isn't there ANY mention of this use in the APRS
specification?

> TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1

I thought data types and packet content would tell us what type of
application is sending the packet, not trying to bury it under a
third-party header. The term "third-party" means someone or something
"other than the principals". In your example, application #1, #2, etc.
are all principals and should be identified as such.

> Why? I see no reason for that to be the case...
>
> > The reason is the size and complexity of the packets as
> they should be
> > sent out to RF (a third-party packet within a third-party packet).
>
> I dont think size is an issue. 3rd party packets as I forsee

Size is not the issue, see my other post regarding this.

> I think this might be the key. Good idea... if an IGate
> needs to take a
> 3rd party packet as above which contains a message back to
> its local RF,
> then here are the rules I would use:

If it is to be gated back to RF, you need to follow the spec: add
another layer of third-party header. Any other modification would be
changing the meaning of the packet.

What we get into here, again, is multiple levels of tunneling. Now, if
the thought is to only allow one level of tunneling, then all IGates
should gate only the data after the } to the Internet. If the IGate
wants to filter TCPIP and TCPXX, fine but since there is no
specification mandating this, it might be problematic.

I honestly feel that if you try to introduce multiple levels of
tunneling into the current architecture of APRS-IS, you are asking for
trouble. Doing the above at the Igate would keep APRS-IS within its
original intent of APRS RF-Internet-APRS RF connectivity and provide
reasonable loop prevention through dupe checking. The APRS-IS servers
would still filter } data types to prevent errant data from "upsetting
the apple cart".

> Compliance with the APRS-IS spec...

There is no APRS-IS spec.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 11:47:58 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17491
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 11:47:42 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 12:47:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff
In-Reply-To: <LYR11586-80570-2002.05.23-10.25.16--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80589-2002.05.23-12.22.55--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205231207590.16680-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Thu, 23 May 2002, AE5PL Lists wrote:

> If [zip-lan-packets] become 3rd party when they hit RF, why should they

> be gated back through APRS-IS?

Because the APRS-IS is supposed to have a copy of every APRS packet transmitted on RF anywhere. If these RF 3rd party packets are not accepted by the APRS-IS, then no application sharing a common TNC and using 3rd party format can communicate with anyone else via the APRS-IS.

> > 2) Any case of multiple applications sharing a single TNC

>

> I have multiple applications using a single TNC and third-party packets
> are not used.

Agree, simply use KISS and this is easy..

> Third-party packets, by definition, are packets that are
> being regenerated from another medium.

I defined 3rd party packets back prior to the APRS-IS, and the definition is a packet carried within another packet. There is no such definition as you quote above... But looking at the wording that Ian used in the APRS spec, I can see how you interpreted it that way...

> > 3) Any packets generated from TNC's not using KISS mode

> ??? My APRS+SA using a standard TNC doesn't generate third-party
> packets (unless they are IGate originated).

Opps sorry. Sloppy on my part. I meant any "multiple-source packets"...

> > 4) APRStt packets

>

> I thought the intent of APRStt was to generate standard APRS packets.
> Why the third-party packet aspect?

Since every APRStt packet will have a separate ORIGINATOR callsign, then it must be injected onto 144.39 as a 3rd party packet if, say, a Kenwood D7 is being used as the interface to 144.39. And since APRStt is designed as a special event support, meaning portable, then the Kenwood is a prime component. At every Venue in Dayton, I took my APRStt laptop and two Kenwood HT's and we had APRStt DTMF conversion everywhere I went... I envision it being used that way.

> > > 5) APRSdata packets serving up Satellite info >

> Again, why does this data need to be encapsulated with an extra header
> (which is all that third-party packets do)?

So that each one can pass through a NON KISS TNC...

> > 6) And I can think of many many more... anyplace where you want to use
> > a TNC to serve up multiple sources of APRS packets...
>
> I disagree. Third-party packets are defined for "packets that are to be
> transported through third-party (i.e. non AX.25) networks, such as the
> Internet, and Ethernet LAN, or a direct wire connection." I fail to see
> how using a TNC with multiple applications causes this to occur.

One side of the TNC is a wire, the other side is APRS. If you have multiple sources of packets on the wire, then you have to either use KISS protocol, or 3rd party format.

> In fact, Bob, I ran an extensive study of APRS-IS this year and the only
> packets appearing as third-party packets were packets being improperly
> gated from RF to the Internet.

Of course. It is impossible to see 3rd party packets by using the APRS-IS as a monitor because all IGates are currently filtering out all 3rd party packets. That is why I want to slowly change that...

> According to Chapter 17 of the APRS
> specification, the only anticipated uses for third-party packets are for
> network tunneling and third-party digipeating.

Poor choice of words. Those words were not meant to be exclusive. Notice that "direct-wire-connection" is included. In the context of the spec, a TNC that is putting out multiple packets from multiple sources as 3rd party packets, is "digipeating" these packets from its serial port (wire) to its RF port...

> > The APRS-IS spec (?) requires all packets that are gated
> > from IS back to RF to have either TCPIP or TCPXX in them.

> As you know, there is no APRS-IS specification.

Yep, its time to fix that.

> I recommend that we adhere to the APRS specification and keep
> third-party packets in their original intent: to provide a means for
> packets to be delivered from one APRS RF network to another via a
> non-AX.25 medium while holding the original packet's source path header
> and data.

I agree completely. But be careful of reading too many restrictions into your interpretation. There is nothing that requires an RF network on both ends. I agree with you completely that we should be following the spec. and that means that 3rd party packets are a general purpose mechanism.. and should not be used as a simplistic approach to prevent looping on the

APRS-IS.

> While the capability to have multiple layers of third-party headers is
> within the bounds of the APRS specification, I would say that adding
> this level of complexity to APRS-IS begins to move the APRS-IS out of
> the domain of providing an internetworking tool between APRS RF networks
> and moves it into the realm of being a rudimentary AX.25 packet router.
> Allowing third-party packets to traverse the APRS-IS greatly increases
> the complexity of dupe check algorithms (you can't dupe check on the
> main packet header any more) and packet interpretation algorithms (same
> issue). If third-party packets are allowed on APRS-IS, you are
> essentially trying to allow multiple levels of network tunneling to be
> carried over APRS-IS. I can speak from experience in saying that the
> current architecture of APRS-IS could be greatly compromised if that
> were to happen.

No, that is why you proposed the perfect solution which I like. Any 3rd
party packet accepted by the APRS-IS, strips off any layers of any
carrying TNC headers and only accepts the original packet itself...
This needs to be fully thought out, but seems like the approach we need to
take...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 12:06:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA18926
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 12:06:23 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 13:05:38 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff
In-Reply-To: <LYR11586-80576-2002.05.23-10.44.58--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80596-2002.05.23-12.41.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205231248360.16680-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Thu, 23 May 2002, AE5PL Lists wrote:

> > 3rd party was DESIGNED so that any number of applications may share a
> > single TNC for their ON-AIR packets. Such as multiple PC's at an EOC
> > or event NET control tent...
>
> ?????? Why isn't there ANY mention of this use in the APRS
> specification?

Chapter 17 covers the 3rd party format.

> > TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1
>
> I thought data types and packet content would tell us what type of
> application is sending the packet, not trying to bury it under a
> third-party header. The term "third-party" means someone or something
> "other than the principals". In your example, application #1, #2, etc.
> are all principals and should be identified as such.

This is an incorrect interpretation. The TNC is the "principal" since it is the LICENSED RF transmitting station. It is "carrying" another application's packet as 3rd party traffic...

[regarding stripping off any multiple headers and only forwarding the original packet...]:

> If it is to be gated back to RF, you need to follow the spec: add
> another layer of third-party header. Any other modification would be
> changing the meaning of the packet.

We both agree completely here. Any packet going from IS-2-RF needs to use 3rd party as we have been doing for years. But this is not "another" layer as you suggest above, because the first layer was already removed at IS-injection (as you suggested)...

> What we get into here, again, is multiple levels of tunneling.

Not at all. Any packet that goes through the network ONCE will never go

through it again. How do you get multiple levels of tunneling?

> Now, if
> the thought is to only allow one level of tunneling, then all IGates
> should gate only the data after the } to the Internet. If the IGate
> wants to filter TCPIP and TCPXX, fine but since there is no
> specification mandating this, it might be problematic.

Ah, Yes, that is what I thought you proposed and I think it is the right approach. The absence of an APRS-IS spec that mandates the use of "TCPIP" and "TCPXX" does not in any way detract from the fact that it **is** mandated... and must be in all IGate code...

> I honestly feel that if you try to introduce multiple levels of
> tunneling into the current architecture of APRS-IS, you are asking for
> trouble. Doing the above at the Igate would keep APRS-IS within its
> original intent of APRS RF-Internet-APRS RF connectivity and provide
> reasonable loop prevention through dupe checking. The APRS-IS servers
> would still filter } data types to prevent errant data from "upsetting
> the apple cart".

if you mean by "filter" the stripping off of the on-air-TNC-shipping-header but then accepting the original packet into the IS, then we are in full agreement...

> > Compliance with the APRS-IS spec...
>
> There is no APRS-IS spec.

Ah!, There IS an IS specification..., it is just that no one has written it down! ;-) <grin>

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 12:12:38 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA19102
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 12:12:34 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 13:12:15 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>

X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: TAPR APRS SIG <aprssig@lists.tappr.org>, <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: NAD27 to WGS84 Datum Conversion for APRS Maps?
In-Reply-To: <0GWK00H6YLY36B@mail-mta1.service.ohio-state.edu>
Message-ID: <LYR11589-80598-2002.05.23-12.47.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205231307380.16680-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On the subject of NAD27 to WGS84 map conversion, Richard Holbert wrote:

> So, let's define the new field as the datum field, and stick WGS84 in it
> after it's been converted. Can you send me an example of the new header
> format with WGS84 in its proper place?

It is the field that says "reserved". Just put "WGS84" in that location
as the indicator that it has been converted... The source data for all
automatically generated APRSdos maps was the USGS DLG data which I think
was all NAD27? Here is the header on ANY APRSdos map:

```
63 ,LAT ORIGIN
140 ,Long ORIGIN
18 ,pixels-per-degree
37.00416 ,      Latitude of map center (to be put in MAPLIST)
96.99898 ,Longitude of map center (ditto)
2060 ,Map Radius      (ditto)
0 ,reserved
LineFormat
9,4.... map data for the rest of the file...
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 23 12:43:02 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA21638
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 12:43:00 -0500 (CDT)
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-ID: <LYR11589-80603-2002.05.23-13.18.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 23 May 2002 12:42:13 -0500
From: Gerry Creager <n5jxs@tamu.edu>
Reply-To: Gerry Creager <n5jxs@tamu.edu>
Organization: Texas A&M University -- AATLT
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NAD27 to WGS84 Datum Conversion for APRS Maps?
References: <LYR22347-80598-2002.05.23-12.47.52--n5jxs#tamu.edu@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <3CED29F5.FDDF97F9@tamu.edu>
Precedence: bulk

The origins of the DLG data predated the widespread use of NAD83, so you're correct in assuming they were NAD27. Also, some of the early SDT-format data were NAD27. USGS is updating their current offerings on an as-effected basis to NAD83, with recent adjustments (which means that NAD83/1990 and NAD83/1999 are likely different in true position by the degree of tectonic motion for a given coordinate set.

gerry

Bob Bruninga wrote:

>
> On the subject of NAD27 to WGS84 map conversion, Richard Holbert wrote:
>
> > So, let's define the new field as the datum field, and stick WGS84 in it
> > after it's been converted. Can you send me an example of the new header
> > format with WGS84 in its proper place?
>
> It is the field that says "reserved". Just put "WGS84" in that location
> as the indicator that it has been converted... The source data for all
> automatically generated APRSdos maps was the USGS DLG data which I think
> was all NAD27? Here is the header on ANY APRSdos map:
>

> 63 ,LAT ORIGIN
> 140 ,Long ORIGIN
> 18 ,pixels-per-degree
> 37.00416 , Latitude of map center (to be put in MAPLIST)
> 96.99898 ,Longitude of map center (ditto)
> 2060 ,Map Radius (ditto)
> 0 ,reserved
> LineFormat
> 9,4.... map data for the rest of the file...
>
> ---
> You are currently subscribed to aprsspec as: n5jxs@tamu.edu
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 23 13:01:46 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA22895
for <lyris.aprsspec@tappr.org>; Thu, 23 May 2002 13:01:40 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 14:00:23 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: TAPR APRS Special Interest Group <aprssig@lists.tappr.org>,
APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] RE: Questons on NOGATE, RFONLY and 3rd party
stuff
In-Reply-To: <r01050100-1014-8B7E8A746E6D11D6AAA500039345286E@[192.168.2.164]>
Message-ID: <LYR11589-80609-2002.05.23-13.36.55--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205231348490.16680-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Thu, 23 May 2002, Steve Dimse wrote about 3rd party packets:

> No, I think the original intent of Pete was right. If you are going to
> be injecting the packets that came off of the LAN network, they
> should be sent in a non-third party format, instead of sending:

Ah, but the ZIP-LAN is nothing but the wires connecting the serial ports of several laptops to one TNC. There is no way to get to the APRS-IS from there. There are just 4 laptops in a tent all hooked up to a TNC. Everything they do is on RF. My only point is that because the packets that come out of the TNC are in 3rd party format, the current APRS-IS that hears them on the air, ignores them... Thus, this Tent and all its packets "don't exist" in the APRS-IS domain...

> TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1
>
> the application should send:
>
> MYAP1>APX:this packet from application #1

But we cannot do this from 4 different laptops all connected to a single TNC without going to KISS and or a whole additional layer of hardware, firmware, software, Gateways, LANS or whatever and special configuration of same.... All that stuff is what 3rd party format avoids.

> This way there is no need for IGates to get involved.

Agree. IGates are not involved. Unless the goal of an IGate is to pass to the APRS-IS everything that is happening in an area on RF... (which I think of as its main goal...)

Again, it's a small problem. I don't want to upset the apple cart. But in the long term, we must get away from using "3rd party" rejection as the sole means of eliminating APRS-IS looping.

We must focus on the modification of APRS-IS path headers to make it 100% reliable that the presence of "TCPIP" or ",I," or ",I*," or ",I:" is the first layer reject filter for looping... not 3rd party...

Which of course means we have to get all APRS-IS authors to start doing that... :-)

That is my only point.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 13:16:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23876
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 13:15:58 -0500 (CDT)
X-Originating-IP: [209.69.34.70]
Reply-To: "Jeff King" <transit_man@hotmail.com>
From: "Jeff King" <transit_man@hotmail.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: aprsspec@lists.tapr.org
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Date: Thu, 23 May 2002 18:15:28 +0000
Mime-Version: 1.0
Content-Type: text/plain; format=flowed
Message-ID: <LYR11589-80611-2002.05.23-13.51.15--
lyris.aprsspec@lists.tapr.org>
X-OriginalArrivalTime: 23 May 2002 18:15:29.0234 (UTC)
FILETIME=[D1BA2B20:01C20285]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <F4gRGkQ6mBySsxVY60m000001159@hotmail.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga <bruninga@usna.edu> wrote:

>Then lets FIX any non-APRS-IS compliant programs...

Where is the compliance spec for the APRS-IS located? Last I heard (6 days ago at Dayton) is was hopelessly deadlocked.

-Jeff

Send and receive Hotmail on your mobile device: <http://mobile.msn.com>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 13:26:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA24798
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 13:26:19 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 14:25:39 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
In-Reply-To: <F4gRGkQ6mBySsxVY60m00001159@hotmail.com>
Message-ID: <LYR11589-80614-2002.05.23-14.01.39--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205231425150.16680-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 23 May 2002, Jeff King wrote:

> Bob Bruninga <bruninga@usna.edu> wrote:
>
> >Then lets FIX any non-APRS-IS compliant programs...
>
> Where is the compliance spec for the APRS-IS located? Last I heard (6 days
> ago at Dayton) is was hopelessly deadlocked.

Yep, that was tongue-in-cheek... hi hi

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Thu May 23 15:18:34 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02662
for <lyris.aprsspec@tappr.org>; Thu, 23 May 2002 15:18:30 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Thu, 23 May 2002 15:17:48 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80639-2002.05.23-15.53.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
Thread-Topic: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Thread-Index: AcICYACSRTmdBq8ET9CE+aPdH/42DQAM5odw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB75@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id PAA02662

This is where, I think, at least Bob and I agree.

Third-party packets should only appear on AX.25 networks.

Gateways to non-AX.25 networks should strip the AX.25 information from the third-party packets before forwarding to the non-AX.25 network.

Chapter 17 of the APRS specification should be closely followed when generating third-party packets:

TNC-2 Format-> Source Path,Network ID,Gateway*:packet

Of course, the AEA format can be used as well. The source path is from the receiving end, the Network ID & Gateway is from the gateway putting the packet back into an AX.25 network. TCP/IP (for verified stations) and TCPXX (for non-verified stations) are to be used for the Network ID for packets gated from the Internet. TCPXX packets can be gated to RF, but it is the responsibility of the IGate operator to make sure they adhere to individual country third-party traffic rules.

Based on this thought line, APRS-IS servers can continue to block third-party packets to reduce loop problems introduced by errant IGates. IGates should gate ALL third-party packets from RF to APRS-IS except for third-party packets with TCPIP or TCPXX in the third-party header. Gated third-party packets should have the AX.25 headers and the } data type removed.

This methodology prevents nesting of third-party packets, leaves the current APRS-IS intact, and permits future experimentation and expansion of the APRS network.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 15:28:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA03537
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 15:28:07 -0500 (CDT)
Message-ID: <LYR11589-80641-2002.05.23-16.03.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Brent Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-80609-2002.05.23-13.36.55--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: Questons on NOGATE, RFONLY and 3rd party stuff
Date: Thu, 23 May 2002 13:26:58 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.50.4522.1200
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Brent Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <011301c20298\$69d2c360\$6294b3d1@laptop233>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> On Thu, 23 May 2002, Steve Dimse wrote about 3rd party packets:
>
> > No, I think the original intent of Pete was right. If you are going to
> > be injecting the packets that came off of the LAN network, they
> > should be sent in a non-thiord party format, instead of sending:
>
> Ah, but the ZIP-LAN is nothing but the wires connecting the serial ports
> of several laptops to one TNC. There is no way to get to the APRS-IS
> from there. There are just 4 laptops in a tent all hooked up to a TNC.
> Everything they do is on RF. My only point is that because the packets
> that come out of the TNC are in 3rd party format, the current APRS-IS that
> hears them on the air, ignores them... Thus, this Tent and all its
> packets "dont exist" in the APRS-IS domain...

Many new Laptop computers do NOT have serial ports. Many do have built in
802.11b. That latter works great with APRS, allowing the sharing of a TNC
with multiple computers, and no wires attached. The KIPSS program talks to
a TNC in Kiss mode. Client programs can connect via TCP/IP, locally on an
802.11b network, or across the world via the Internet. Each packet is
transmitted in this format:

MYCALL>MYTO,MYPATH:MyData

> > TNCALL>APRS,WIDE:}MYAP1>APX:this packet from application #1
> >
> > the application should send:
> >
> > MYAP1>APX:this packet from application #1
>
> But we cannot do this from 4 different laptops all connected to a
> single TNC without going to KISS and or a whole additional layer of
> hardware, firmware, software, Gateways, LANS or whatever and special
> configuration of same.... All that stuff is what 3rd party format avoids.

It is not that difficult. Ziplan is difficult if you don't have a serial
port.

> > This way there is no need for IGates to get involved.
>

> Agree. IGates are not involved. Unless the goal of an IGate is to pass
> to the APRS-IS everything that is happening in an area on RF... (which I
> think of as its main goal...)
>
> Again, its a small problem. I dont want to upset the apple cart. But in
> the long term, we must get away from using "3rd party" rejection as the
> sole means of eliminating APRS-IS looping.
>
> We must focus on the modification of APRS-IS path headers to make it 100%
> reliable that the presence of "TCPIP" or ",I," or ",I*," or ",I:" is the
> first layer reject filter for looping... not 3rd party...
>
> Which of course means we have to get all APRS-IS authors to start doing
> that... :-)
>
> That is my only point.
>
> Bob

I am in favor of going gating IS data to RF in a non-3rd party format. But
it would take years, IF EVER, before one can remove the current filtering of
"3rd party" packets.

Brent KH2Z

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 16:40:03 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA07355
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 16:39:59 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Thu, 23 May 2002 16:39:49 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80652-2002.05.23-17.15.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
Thread-Index: AcICh2H552DHIJFJTfQ+Bh6a0LRlTAAGUq0Q
From: "AE5PL Lists" <HamLists@ametx.com>

Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB77@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id QAA07355

One other thought that Bob brought up that I, in principle, I agree with. I have always thought that the IGate injecting the packet into APRS-IS should be identified in the header. If we use the third-party header principle, the source header gets truncated to the "last digi" or where the * is. If we use Bob's idea and have the injecting IGate do this truncation and then add its own callsign-SSID,I*, we would have a complete history of a packet, no matter how many times it makes it to RF and back.

For instance, lets look at a bad example:

```
AE5PL>APRS,AE5PL-11*,WIDE3-2,WIDE3-3:rest of packet
Gets gated into the Internet by AE5PL-10:
AE5PL>APRS,AE5PL-11,WIDE3-2,AE5PL-10,I*:rest of packet
Gets gated to RF by KC5G0I:
KC5G0I>APRS,WIDE2-2:}AE5PL>APRS,AE5PL-11,WIDE3-2,AE5PL-10,I,TCPIP,KC5G0I
*:rest of packet
Gets gated back to Internet by K7PW:
AE5PL>APRS,AE5PL-11,WIDE3-2,AE5PL-10,I,TCPIP,KC5G0I,K7PW,I*:rest of
packet
```

Now, I know this should never happen. I am just using it to illustrate how the packet header is carrying a complete history of the packet route using this method of injecting IGate identification.

Food for thought.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 19:01:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA13089
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 19:01:12 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 19:59:58 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] RE: Questons on NOGATE, RFONLY and 3rd party
stuff
In-Reply-To: <LYR11586-80641-2002.05.23-16.03.34--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80684-2002.05.23-19.36.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205231951110.16737-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 23 May 2002, Brent Hildebrand wrote:

> > Ah, but the ZIP-LAN is nothing but the wires connecting the serial ports
> > of several laptops to one TNC.
>
> Many new Laptop computers do NOT have serial ports. Many do have built in
> 802.11b. That latter works great with APRS, allowing the sharing of a TNC

No question that there are many many ways to work around and use new hardware. I would never expect someone else to use 3rd party format where there are shorter alternatives. But APRS is not going to be the kind of system where we instantly obsolete all older ways of doing things each time everyone rushes out to buy the latest Bill Gates gizmo...

> It is not that difficult. ZipLan is difficult if you don't have a serial

> port.

So dont use it. But we should not insist that because someone with a new toy cannot use it that therefore we are going to make sure that no one else can either...

> I am in favor of gating IS data to RF in a non-3rd party format. But
> it would take years, IF EVER, before one can remove the current filtering of
> "3rd party" packets.

Well, to clarify some confusion maybe, I never was opposed to using 3rd party for IS-2-RF. I'm the one that suggested it in the first place. I am only asking that in the future we not then depend on 3rd party filtering as the only means for preventing APRS-IS looping. LOOP detection should be based on PATH and all APRS-IS to RF packets should contain an indication that they came through the APRS-IS. That is what should be the filter trigger....

As you have probably seen in other email, our discussions have arrived at a solution that is fully backwards compatible, yet allows 3rd party packets (only the internal part) to be accepted by the APRS-IS.. this should make this issue moot...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu May 23 19:06:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA13534
for <lyris.aprsspec@tapr.org>; Thu, 23 May 2002 19:06:32 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Thu, 23 May 2002 20:06:00 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Questons on NOGATE, RFONLY and 3rd party stuff (fwd)
In-Reply-To: <LYR11586-80652-2002.05.23-17.15.25--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80686-2002.05.23-19.41.51--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205232004530.16737-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 23 May 2002, AE5PL Lists wrote:

> AE5PL>APRS,AE5PL-11,WIDE3-2,AE5PL-10,I,TCPIP,KC5G0I,K7PW,I*:rest of
> packet
>
> Now, I know this should never happen. I am just using it to illustrate
> how the packet header is carrying a complete history of the packet route
> using this method of injecting IGate identification.
>
> Food for thought.

Yes, I want to make sure that nothing we do now locks out the potential
for APRS-IS transparency in an AX.25 header. That is, the APRS-IS is just
another digipeater....

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 08:07:28 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22483
for <lyris.aprsspec@tappr.org>; Fri, 24 May 2002 08:07:27 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 09:07:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Injecting IGate identification
In-Reply-To: <LYR20817-80612-2002.05.23-13.55.45--
bruninga@usna.edu@lists.tappr.org>

Message-ID: <LYR11589-80810-2002.05.24-08.42.57--
lyris.aprsspec@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205240858390.2901-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Authors,

> 3) All packets to be injected into the APRS-IS will have their PATHS
> modified to include the SOURCE of the injecting IGate. Assuming MYGATE
> is the callsign of any given IGATE, this is done by inserting
> ",MYGATE*,I" on the end of the path.

This is easy to do for standard TAPR-2 Headers, but a pain to do for AEA headers, so authors might consider just doing it for TAPR-2 headers and not worrying about the minority of AEA headers for now.

THIS seemingly lack of thoroughness is really a brilliant short cut, since not doing the AEA is no difference than what we have now, and by avoiding that extra work, and taking the trivial case of TAPR-2 headers first, that will get us 95% of the way toward IGate identification easily...

I notice that most IGate software is doing this now. We need to get the remainder to incorporate this very valuable technique for the future of the APRS-IS...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 08:27:55 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA23328

for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 08:27:49 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Fri, 24 May 2002 08:27:34 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80823-2002.05.24-09.03.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] Injecting IGate identification
Thread-Index: AcIDJAuMHNMW+QL1T4aWm5xxTQrKDgAAYDWg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB7D@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA23328

True about the AEA headers. They can be a pain. However, since most IGate software already accounts for AEA packets, the insertion algorithm shouldn't be too difficult. In fact, it is outlined in the third-party header description in chapter 17 of the spec.

I recommend inserting MYGATE,I* instead of MYGATE*,I. The reason is what is done at the return to RF end. At the Internet to RF end, according to the spec, the path is to be shortened to the last digi. In my case, that would preserve the I whereas in you case the I would be dropped.

I also think, as I showed in my example, that the path should be shortened per the third-party header spec at the source end before appending ,MYGATE,I*. This will reduce path lengths in the third-party header and no information is lost regarding the history of the packet's traversal.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Friday, May 24, 2002 8:08 AM
> Subject: [aprsspec] Injecting IGate identification
>
> Assuming MYGATE
> > is the callsign of any given IGATE, this is done by inserting
> > ",MYGATE*,I" on the end of the path.
>
> This is easy to do for standard TAPR-2 Headers, but a pain to
> do for AEA

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 09:06:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA25604
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 09:05:57 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 10:04:42 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: we have a loop
In-Reply-To: <LYR20817-80791-2002.05.24-03.30.36--
bruninga@usna.edu@lists.tapr.org>
Message-ID: <LYR11589-80837-2002.05.24-09.40.29--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205240946250.2901-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 24 May 2002, Steve Dimse wrote:

> It isn't a loop, an IGate is modifying the packet path, removing the
> rf path and putting TCPIP and its call into it. This alone is proof
> that Bob's filtering proposal won't work!

I think I disagree completely with the conclusion as stated.

My filtering proposal will work, if implemented properly. But of course it won't work until the "garbage-in" is fixed, and this will be a long term project. We must have a long term goal to fix the garbage on the APRS-IS.

In the context of the statement "it won't work", I can agree that "no single flip-switch-instant-gratification-one-person-implementation will work the instant it is activated until the "rest" of the implementation is in place first...

I am trying to help us define the "end-goal" so that we can start designing towards that goal and so that at some point in the future, we have all the pieces in place so that we can "flip-the-switch" and it will work...

To date, I have seen no successful effort by the authors of IGates to agree to a workable end goal other than the ",MYGATE,I" construct as a first step. Until we have a known end objective, that all authors can strive towards, the APRS-IS will continue to add entropy until it ceases to work.

The steps toward that end objective that I have seen that would work are:

- 1) Doing IGate identification (,MYGATE,I)
- 2) 100% adherence to insertion of either TCPIP or ",I" in all IS>RF pkts
- 3) Filtering based on TCPIP, TCPXX, and ",I"
- 4) Notice that you can RETAIN the 3rd party filter because we have now arrived at the solution of accepting only the payload of a 3rd party packet into the IS (after the #2 loop filter above)
- 5) Once all that is in place, then we flip-the-switch and the servers will no longer circulate any APRS-IS packets not in compliance.

Any devils in the details?

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 09:53:29 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA02709
for <lyris.aprsspec@tappr.org>; Fri, 24 May 2002 09:53:24 -0500 (CDT)
Message-ID: <LYR11589-80853-2002.05.24-10.28.42--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Fri, 24 May 2002 15:52:42 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: Injecting IGate identification
References: <LYR26815-80823-2002.05.24-09.03.15--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-80823-2002.05.24-09.03.15--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <2IR+MUA60178EwGA@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-80823-2002.05.24-09.03.15--roger#peaksys.co.uk@lists.tappr.org>, AE5PL Lists <HamLists@ametx.com> writes
>True about the AEA headers. They can be a pain. However, since most
>IGate software already accounts for AEA packets, the insertion algorithm
>shouldn't be too difficult.

The problem of "TNC2" frame headers and "AEA" frame headers, of course only occurs when using a TNC in terminal mode. It's not hard to parse "AEA" frame headers into a TNC2 compatible format before passing them to the internet.

>I recommend inserting MYGATE,I* instead of MYGATE*,I. The reason is
>what is done at the return to RF end. At the Internet to RF end,
>according to the spec, the path is to be shortened to the last digi. In
>my case, that would preserve the I whereas in you case the I would be
>dropped.

This was discussed at great length a few months ago. You don't need a '*' . All these indicate that the frame has gone through an IGATE:-

MYGATE,I

MYGATE*,I
MYGATE,I*
MYGATE*,I*

So why not use the first? That way you don't create an invalid "TNC2" frame header. E.g. this is an invalid "TNC2" frame header:-
G4IDE>APRS,RELAY*,WIDE,MYGATE*,I

(Careful path shortening will also nearly, but not quite, get round the problem.)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 10:22:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA05378
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 10:22:35 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 11:22:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-80823-2002.05.24-09.03.15--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80859-2002.05.24-10.58.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205241037560.2901-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 24 May 2002, AE5PL Lists wrote:

> I recommend inserting MYGATE,I* instead of MYGATE*,I....

I agree completely that when a packet "arrives" to an end IGate "from the APRS-IS, that the I* should be marked to show that the Internet was the source of the packet. I believe this strongly. And equally, I believe that an RF packet injected into the APRS-IS should be injected *without* the "*" mark (that-is, a naked ",I") because at that point it has not yet traversed the APRS-IS.

The thing we must determine is exactly what "process" is the one that actually flips the "naked,I" to an ",I*".

I think it should be the IGate that is monitoring the APRS-IS. The instant it takes a packet from the APRS-IS stream is when the "naked,I" becomes a ",I*". This is totally consistent with the definition of a "*" in a TAPR-2 header. It is marked when it is "received" to show HOW it was received....

Thus, IGates injecting a packet into the APRS-IS should not pre-mark it with ",I*" since that violates the principle of least astonishment relative to TAPR-2 convention. Marking it with a "naked,I" means "this packet is intended for the APRS-IS", not that it actually got there... We can only know that it got somewhere (that is, traversed the APRS-IS) when it comes back out. That is when it should be marked with a ",I*".

And furthermore therefore, the ",MYGATE*,I" should be marked with a "*" when that IGate puts the packet onto the APRS-IS. At that instant is when the packet was actually processed by MYGATE. Thus an injected packet should have a MYGATE*, followed by a "naked,I" showing the next hop pending.

> I also think, as I showed in my example, that the path should be
> shortened per the third-party header spec at the source end before
> appending ,MYGATE,I*.

This can be a separate issue. I think I agree, but I don't want to boggle down the fundamental construct with the devils in the details.. <grin>. My initial thought is to only bring in the path-reducers when the path actually exceeds the limit. I think the future APRS network with WideN-N and smart-digi routing will see much shorter headers in general, and more IGates with shorter paths and so I don't want to start throwing out path data until we have to. I envision the following as the typical future path:

W4XX>APRS,MYDIGI,WIDE2-2:my packet stuff <== original RF Packet

W4XX>APRS,MYDIGI,WIDE2-2,MYGATE*,I*:my packet stuff <== in APRS-IS

If it goes back to RF then it would be carried by this header:

DXGATE>APRS,DIGX,WIDE1-1:}above packet goes here...

And eventually (someday) I would like to see it simply be a KISS packet:

W4XX>APRS,MYDIG,WIDE3-2,MYGATE,I,DXGATE,DIGIX,WIDE2-1*:my packet stuff

That is a 7 hop path which identifies the SOURCE RF digi, the MYGATE injection point, the DXGATE extraction point, the destination SOURCE RF DIGI and the paths at both ends. THAT IS MY DREAM.

Notice that this packet only appears on RF ONCE in its long form. and that is ONLY at the end delivery point, and this is ONLY for rare IS-to-RF end user delivery.

FURTHER! If the packet was originally heard by the first IGate from the first MYDIG* then the following WIDE3-3 would be dropped. Once a packet is heard, all subsequent unused path junk CAN be dropped. And I think we eventually should have an IGate monitoring ALL digis so that we do get these on the first hop. AND in that case, the final WIDE2-1 is not needed either! Thus the "typical" end-to-end APRS packet would look like this:

W4XX>APRS,MYDIG,MYGATE,I,DXGATE,DIGIX*:my packet stuff

Which is sure sweet. Full path details end-to-end...

This is what drives every comment I have made over the last few years on the topic of APRS-IS. I am not trying to say lets do this end-for-end stuff now. But I am fighting hard to make sure that we don't do anything NOW that would PREVENT us from moving to this in the future...

And this is why we MUST eventually get away from using the 3rd-party-crutch filter as the only means for loop detection. It prevents us from ever going to KISS packet regeneration at the distant end!

Without detecting "TCPIP" or "I" as a primary means of loop detection, we will forever be denied the ability to use KISS mode to regenerate packets from the APRS-IS..

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 10:56:52 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07811
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 10:56:45 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 11:56:11 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-80853-2002.05.24-10.28.42--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-80872-2002.05.24-11.32.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205241135370.2901-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 24 May 2002, Roger Barker wrote about MYGATE*,I:

> This was discussed at great length a few months ago. You don't need a
> '*'. All these indicate that the frame has gone through an IGate:-
>
> MYGATE,I
> MYGATE*,I
> MYGATE,I*
> MYGATE*,I*
>
> So why not use the first? That way you don't create an invalid "TNC2"
> frame header. E.g. this is an invalid "TNC2" frame header:-
> G4IDE>APRS,RELAY*,WIDE,MYGATE*,I

Sorry, Roger, I disagree completely. The reasons are many:

- 1) Consistency with the function of the AX.25 has-been-digipeated-bit.
- 2) Having multiple *'s in a TAPR-2 path is NOT an "invalid" header. It is only "invalid" if you define it that way in your own code.
- 3) The DSP-12 and possibly other TAPR-2 implementations ALWAYS display a "*" by every digi field with the has-been-digipeated-bit set.

The packet: G4IDE>APRS,RELAY*,WIDE*,MYGATE*,I is perfectly valid.

- 4) We must NOT throw away the state of the has-been-digipeated-bit when we convert an AX.25 header to its ASCII equivalent. This severely constrains our future abilities to do anything with Header data.

I say again, every digipeater in an AX.25 field has a has-been-digipeated bit, and that bit is either a "1" or a "0". We must preserve that information. It is only a "convenience" that the TAPR2 header in many TNC's drop all the *'s except the last one when converting a header to ASCII. But that is NOT a good idea. We should not follow this simplification blindly as it cripples our future implementations and throws away perfectly valid data.

PREEMPTIVE digipeating is an idea that has been around since 1994 and it is dependent on knowing what digis have been used regardless of their POSITION in the header. The only way of preserving that information when converting the header to its ASCII equivalent is the *. It is perfectly good, and it works, and it is totally consistent. If one wants to know what is the LAST digi heard, then it is the LAST * (in a conventional packet).

If your code considers a packet with multiple *'s in it as invalid, then that is only a local restriction of your code and it will not work with a DSP-12 TNC... I hope I can convince you that we must preserve the state of the has-been-digipeated-bit in all ASCII representations of an AX.25 header if we are to make any future improvements on APRS routing.

Sure, it is not "needed" "now", but why tie our hands in the future by putting in arbitrary restrictions now and accepting a process that throws away critical PATH info that could be so valuable?

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 11:15:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA09272
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 11:15:20 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 12:13:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
APRS+ <APRSPLUS@k8sn.org>, APRSSPEC <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: [aprsplus] wideN-N issues
In-Reply-To: <LYR20817-80855-2002.05.24-10.43.45--
bruninga@usna.edu@lists.tapr.org>
Message-ID: <LYR11589-80879-2002.05.24-11.50.29--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205241159060.2901-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On a bad day, I wake up and dream of saying the following:

"I wish that APRS never allowed any paths longer than 3 hops. APRS was designed for tactical real-time support of events and local operations. ANY event or local happening can be done by 3 hops. One to get to the BIG wide in the middle, and ONE to assure end delivery to an HT...

If 3 hops cannot do what you are trying to do with APRS, then APRS on 144.39 is not the tool for the job. Use something else.

But then I go back to sleep... and the nightmare is over. de WB4APR

On Fri, 24 May 2002, Chris West wrote:

> So is the goal to get to an I-GATE?... I don't think the goal of APRS
> should be to "transmit the shortest path required to reach an
> I-GATE".... I do agree that something needs to be done to make the

> system more effecient. I suggest we first look at using smart beaconing
> in mobile trackers and limit digi's so they only transmit their
> position/info no more than once an hour.

I oppose this last idea strongly.. Mobiles driving in new areas would never even see the digi! In one hour he covers 60 miles! The rule should be:

DIGIS send a local DIRECT packet once every 10 minutes.
DIGIS send a ONE HOP packet once every 30 minutes.

10 minutes for local and 30 minutes for "area" are the two NET-CYCLE times quoted in the spec.

I do also think a 2 hop path every hour is not a bad idea. Anything beyond that is in my opinion, just QRM...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 11:43:10 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA10826
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 11:43:06 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Fri, 24 May 2002 11:42:02 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-80887-2002.05.24-12.18.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcID08L82E4fgPZ3RwGZEppf120y1AAA5X/g
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EBB@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA10826

Let's take a step back and look at what the spec says (and most IGates are already doing) and what we are proposing. Chapter 17 in the spec says that the third-party header (the header after the `}`) will be comprised of (TNC-2 format used here for clarity):

Source Path Header (without "unused" digipeaters, `*` or `:`), Third-Party Network Identifier ("callsign"), Callsign of Receiving Gateway Station (-SSID)*:

So, according to the spec, a packet that looks like the following on APRS-IS:

```
AE5PL>APRS,AE5PL-11*,WIDE3-2,WIDE5-5:rest of packet
```

Should be gated to RF as:

```
IGATECALL>APRS,PATH:{AE5PL>APRS,AE5PL-11,WIDE3-2,TCPIP,IGATECALL*:rest of packet
```

Note that WIDE5-5 has been removed, but WIDE3-2 hasn't as it indicates that one WIDEn-n digi has digi'ed the packet.

What is being recommended is the insertion of MYCALL,I at the insertion IGate (the IGate that puts the packet into APRS-IS). To be compatible with the spec for retransmission back to RF and maintain a full history of the packets route, the insertion needs to be as follows (TNC-2 format used for clarity):

```
AE5PL>APRS,AE5PL-11,WIDE3-2,MYCALL,I*:rest of packet
```

This will cause the packet to appear as the following if it is gated back to RF:

```
IGATECALL>APRS,PATH:{AE5PL>APRS,AE5PL-11,WIDE3-2,MYCALL,I,TCPIP,IGATECALL*:rest of packet
```

This tells the recipient that the packet entered APRS-IS at MYCALL and exited at IGATECALL. It also tells AE5PL that MYCALL saw the packet after being digi'ed by AE5PL-11 and one WIDEn-n digi.

As the third-party packet definition already exists and most IGates

follow it, this would be the easiest implementation to maintain routing history and filtering desired by Bob and still keep compatible with all IGates.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 12:01:16 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA11816
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 12:01:07 -0500 (CDT)
Message-ID: <LYR11589-80891-2002.05.24-12.36.33--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 24 May 2002 17:59:04 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: Injecting IGate identification
References: <LYR11586-80853-2002.05.24-10.28.42--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR26815-80872-2002.05.24-11.32.00--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-80872-2002.05.24-11.32.00--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <7qJdEOAYFn78EwF\$@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-80872-2002.05.24-11.32.00--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes
[snip]

>

>2) Having multiple *'s in a TAPR-2 path is NOT an "invalid" header.
> It is only "invalid" if you define it that way in your own code.

(Note - it is NOT invalid in my code, so there's no self-interest in my comments.)

I did not introduce the terms "TNC2" and "AEA". Part of my point is that the different frame header formats are an arbitrary feature of the hardware being used. As I said, I think all headers should be converted into one format before being passed to the internet. (That IS a feature of my code.)

However, given that you and AE5PL were discussing the situation in terms of "TNC2" and "AEA" headers, what I quoted was an invalid "TNC2" header, i.e. a TNC2 would never produce a header like that.

>3) The DSP-12 and possibly other TAPR-2 implementations ALWAYS display
> a "*" by every digi field with the has-been-digipeated-bit set.
>
> The packet: G4IDE>APRS,RELAY*,WIDE*,MYGATE*,I is perfectly valid.

If the '*' is used to indicate EVERY 'H' bit that is set, then the above is a valid header. With a TNC2 header, the '*' indicates the LAST 'H' bit set. So we now have "TNC2", "AEA" and "DSP-12" headers, which reinforces my point about the desirability of converting them all to one format.

>4) We must NOT throw away the state of the has-been-digipeated-bit when
> we convert an AX.25 header to its ASCII equivalent. This severely
> constrains our future abilities to do anything with Header data.

Not at all. My suggestion should be backward compatible with all existing IGATE implementations, and contains additional information that can be used by future implementations. This frame -

G4IDE>APRS,RELAY*,WIDE,MYGATE,I

includes all the information about the original RF path, plus the additional information about how it was passed to the internet.

In terms of future development, it constrains nothing, because any software passing it back to RF is either going to understand the last two "digs" or ignore them.

Similarly, any path analysis software looking at the internet data stream will either understand them or ignore them.

[snip]

>If your code considers a packet with multiple '*'s in it as invalid, then

>that is only a local restriction of your code and it will not work with a
>DSP-12 TNC...

As I said, there is no self-interest in my comments.

> I hope I can convince you that we must preserve the state
>of the has-been-digipeated-bit in all ASCII representations of an AX.25
>header if we are to make any future improvements on APRS routing.

See my above comment - "It constrains nothing..."

>Sure, it is not "needed" "now", but why tie our hands in the future by
>putting in arbitrary restrictions now and accepting a process that throws
>away critical PATH info that could be so valuable?

I'm not throwing away anything. All the path info is there whether or
not you put in the '*'(s). Packets aren't going to "drop off" the
internet onto RF, they are going to be gated by intelligent systems.
Those systems will either understand MYGATE(*),I(*) or they won't. If
they don't, then it is possible that an incorrect RF path would be
assumed if you put in the '*'(s).

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 13:05:38 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA21753
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 13:05:37 -0500 (CDT)
Message-Id: <LYR11589-80914-2002.05.24-13.40.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: mcheavens@pop.amexmail.com
Date: Fri, 24 May 2002 13:04:28 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mark Cheavens <mcheavens@usa.net>
Subject: [aprsspec] Possible Bandwidth solution
Cc: "APRS+" <APRSPLUS@k8sn.org>, "APRSSPEC" <aprsspec@lists.tapr.org>,
UIDIGI@EGROUPS.COM
In-Reply-To: <LYR26900-80855-2002.05.24-10.43.45--mcheavens#usa.net@list
s.tapr.org>

References: <200205231717.25113.kc5goi@kc5goi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Mark Cheavens <mcheavens@usa.net>
X-Message-Id: <5.1.0.14.2.20020524124839.00b07738@pop.amexmail.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Here is a possible solution that COULD be implemented to solve SOME of the path problems.

Have the N-N digipeater be smart enough to do adaptive hold off based upon the number of decrements in the path.

SO,

If a digi hears a packet of Wide5-5 it digipeats it immediately (it is the first digi to hear the packet).

If the second digi hears the packet Wide5-4 it then does a WAIT for x amount of time. (x being a parameter in seconds of DEAD air indicating available bandwidth). All packets would be held in y time buffer, if time y expires OR the buffer is full then it is dumped.

If the third digi hears Wide5-3 then it waits for 2x time buffer and holds that packet in it's y buffer with all the others.

ETC.....

This would self management the bandwidth and always allow people with direct access to the digi priority and still propagate packets a long way IF the bandwidth is available.

Mark Cheavens
KC5EVE

All of this is just a patch instead of having REALLY smart digi's that do what can be done and what the end user would LIKE to have.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 13:07:45 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA21866
for <lyris.aprsspec@tappr.org>; Fri, 24 May 2002 13:07:41 -0500 (CDT)
Message-ID: <LYR11589-80916-2002.05.24-13.41.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: APRS+ <APRSPLUS@k8sn.org>, APRSSPEC <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: [aprssig] Re: [aprsplus] wideN-N issues
Date: Fri, 24 May 2002 13:04:44 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01C20323.93B13C80.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Guy,

See below.

On Friday, May 24, 2002 12:38, Guy Story, KC5G0I [SMTP:kc5goi@kc5goi.net] wrote:

> Yet another valid reason. I see this one happen as well. FYI Not much can be

> done about it when the weather gives us fun/fits.

> On Friday 24 May 2002 09:53 am, you wrote:

> > Guy, if you agree and follow, send on to all the reflectors.

> > (reword as needed).

SNIP

>

> I did have to think about this but Johns point is if a message that
> aprsdDTN should be gating is sent out on a IGATE in Shreivport instead,
the

> message is doomed to be resent multiple times. Some users still do not
fully

> understand that and IGATE that heard the station in question last will be
the

> one that sends out a message to that station. This can cause a message
to

> try to go a less than optimized route. I know how to stop this in
WinAPRS

> and APRS+ but not in APRSD. How to cure the distant IGATE sending

messages

> that a more local IGATE should handle, you got me there. Possibly a
range
> filter.

> Bill Diaz, does the range filter in AHUB deal with it as a side
> effect of the range filters you are using? I will email the aprsD list
to
> see if it is a feature that could be added.

AHub does not contain any range filters.

AFilter, on the other hand, does contain the ability to geofilter location
packets. The station must first send a valid location packet that falls
within either of the 2 available geofilters. All subsequent packets from
this station will be passed until the station moves outside the geofilters.

Regional hubs that use AFilter (generally on port 14579) can provide the
necessary geofiltering for users who wish to limit their APRS bandwidth to
stations within 1 or 2 distinct geographical areas.

A regional (geofiltered) hub can easily be implemented with AFilter and
AFilterX (multi-user extensions for AFilter).

Bill KC9XG

> Guy Story, KC5G0I
> IteI-Tigerbyte LLC
> gstory@tigerbyte.com
> 940.891.4575
>
> ---
> You are currently subscribed to aprssig as: kc9xg@attbi.com
> To unsubscribe send a blank email to leave-aprssig-28856M@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 13:47:08 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA24203
for <lyris.aprsspec@tappr.org>; Fri, 24 May 2002 13:46:59 -0500 (CDT)
Message-Id: <LYR11589-80925-2002.05.24-14.21.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: mcheavens@pop.amexmail.com

Date: Fri, 24 May 2002 13:45:26 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Mark Cheavens <mcheavens@usa.net>
Subject: [aprsspec] Re: [aprssig] Possible Bandwidth solution
Cc: "APRS+" <APRSPLUS@k8sn.org>, "APRSSPEC" <aprsspec@lists.tappr.org>, UIDIGI@EGROUPS.COM
In-Reply-To: <LYR26900-80913-2002.05.24-13.40.11--mcheavens#usa.net@lists.tappr.org>
References: <LYR26900-80855-2002.05.24-10.43.45--mcheavens#usa.net@lists.tappr.org>
<200205231717.25113.kc5goi@kc5goi.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Mark Cheavens <mcheavens@usa.net>
X-Message-Id: <5.1.0.14.2.20020524133128.0310eea0@pop.amexmail.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Already had a brain explosion.....

Two paths:

1. LOCAL: Digipeater strips the path and digipeats it...LOCAL digi that hears it directly and digipeats it ONLY.
2. DIGI: First digi hears it and changes path to DIGI1
Second digi hears it and changes path to DIGI2
ETC.

By using the timers listed below (let's say timer x is 10 seconds). Then IF Digi2 has had 10 seconds of NO activity then it digipeats the first packets in it's held buffer that has not expired because of timer y (y being maybe 1 minute).

Digi 3 would then need 2x (so 20 seconds of dead air) before sending any of the items in it's buffer.

Using this method would in areas of high density make sure there is enough bandwidth for people close to EACH of the digi's AND in rural areas would make the packets go FARTHER.

In effect ALL packets would be automatically be load balanced and NO paths would have to be changed EVER while traveling. It would make ABOUT the same number of packets be visable in any area (rural area's would have packets from farther away and dense area's would have more local traffic).

The only issue I can't think decide on is the one of Priority....Example:
DigiZ hears the same packet twice (once by digiA as DIGI2 and DigiB as
DIGI3.....Should the packet be put in the 2 or 3 group of priorities.)

I think that this would REALLY help out as well with band openings. It
would always give direct heard higher priority with it's hold off timer.

Mark Cheavens
KC5EVE

At 01:04 PM 5/24/2002 -0500, Mark Cheavens wrote:

>Here is a possible solution that COULD be implemented to solve SOME of the
>path problems.

>

>Have the N-N digipeater be smart enough to do adaptive hold off based upon
>the number of decrements in the path.

>

>SO,

>If a digi hears a packet of Wide5-5 it digipeats it immediately (it is the
>first digi to hear the packet).

>If the second digi hears the packet Wide5-4 it then does a WAIT for x
>amount of time. (x being a parameter in seconds of DEAD air indicating
>available bandwidth). All packets would be held in y time buffer, if time
>y expires OR the buffer is full then it is dumped.

>If the third digi hears Wide5-3 then it waits for 2x time buffer and holds
>that packet in it's y buffer with all the others.

>ETC.....

>

>This would self management the bandwidth and always allow people with
>direct access to the digi priority and still propagate packets a long way
>IF the bandwidth is available.

>

>Mark Cheavens

>KC5EVE

>

>All of this is just a patch instead of having REALLY smart digi's that do
>what can be done and what the end user would LIKE to have.

>

>

>---

>You are currently subscribed to aprssig as: mcheavens@usa.net

>To unsubscribe send a blank email to leave-aprssig-26900L@lists.tapir.org

>Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri May 24 18:40:46 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA14530
for <lyris.aprsspec@tappr.org>; Fri, 24 May 2002 18:40:42 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 24 May 2002 19:40:06 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-80891-2002.05.24-12.36.33--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-80995-2002.05.24-19.15.58--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205241910330.12871-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Fri, 24 May 2002, Roger Barker wrote:

> hardware being used. As I said, I think all headers should be converted
> into one format before being passed to the internet.

I hope and I believe we all agree here. This is the starting point.

> If the '*' is used to indicate EVERY 'H' bit that is set, then the above
> is a valid header. With a TNC2 header, the '*' indicates the LAST 'H'
> bit set. So we now have "TNC2", "AEA" and "DSP-12" headers, which
> reinforces my point about the desirability of converting them all to one
> format.

Yes, and I have always wanted all has-been-digipeated bits to be indicated
with a * so that we do have an unambiguous common standardized header to
deal with without any ambiguities. APRS has no requirement that path
data be processed sequentially. We must divorce ourselves therefor from

the "assumption" in most headers that prior-used fields may drop the *.

> >4) We must NOT throw away the state of the has-been-digipeated-bit when
> > we convert an AX.25 header to its ASCII equivalent. This severely
> > constrains our future abilities to do anything with Header data.
>
> Not at all. My suggestion should be backward compatible with all
> existing IGATE implementations, and contains additional information that
> can be used by future implementations. This frame -
>
> G4IDE>APRS,RELAY*,WIDE,MYGATE,I
>
> includes all the information about the original RF path, plus the
> additional information about how it was passed to the internet.

I disagree. It indicates that you heard it via RELAY*, but it only implies an intent for it to be further routed via WIDE,MYGATE,I. There is no indication that in fact, these processes have occurred.

> In terms of future development, it constrains nothing, because any
> software passing it back to RF is either going to understand the last
> two "digis" or ignore them.

We should not be building a network routing system based on assumptions and inferences and ambiguous routing indicators. Every DIGIPEATER field in AX.25 indicates TWO separate and distinct functions:

- 1) An INTENDED ROUTE,
- 2) A mark as to whether that ROUTE was used

These two separate and distinct functions must never be blurred. Notice that callsign substitution is a subset of #2. That is, that the "intended" route was replaced with an actually USED route and this actually USED route is marked with a *. I will strongly oppose any blurring of these TWO separate and distinct functions of a digipeater field no matter how we finally implement APRS-IS... The digipeater field consists of TWO items. Those items must remain separate and distinct throughout APRS, and AX.25, and APRS-IS.

> >I hope I can convince you that we must preserve the state
> >of the has-been-digipeated-bit in all ASCII representations of an AX.25
> >header if we are to make any future improvements on APRS routing.
>
> See my above comment - "It constrains nothing..."

I say it completely destroys the integrity of the AX.25 digipeater header construct and/or is a poor way to build a system based on assumed inferences and lost path usage data.

> I'm not throwing away anything. All the path info is there whether or
> not you put in the '*'(s).

No it is not. The indicator of whether or not these fields have been used or not is NOT there. From that point on, there is no way to construct whether those fields have been USED or not, or substituted. Thus they are stuck ambiguous baggage that cannot be used for any future determination as to whether they should be discarded or not..

> Packets aren't going to "drop off" the
> internet onto RF, they are going to be gated by intelligent systems.

This is, I fear, an assumption that we should never make. Intelligent systems all the time do ridiculous and unwanted things, and especially in the APRS anarchy... We must not design a system that contains ambiguities and lost usage indicators. Using digipeater fields and discarding or making no provision for whether the field has been used or not is a recipe for disaster.. (or our current stagnation).

> Those systems will either understand MYGATE(*),I(*) or they won't.
> If they don't, then it is possible that an incorrect RF path would be
> assumed if you put in the '*'(s).

That is why we must avoid assumptions and standardize on the TAPR2 header with ALL has-been-used marks INTACT. This is the only complete, unambiguous, AX.25 header ASCII conversion that we should be considering.

The reason we couldnt do this in the past was because a lot of packets were injected into APRS-IS directly from TNC's without any processing. As we now move into PARSING ALL INCOMING packets for injection to the APRS-IS, we must also strengthen and be explicit in the accounting of the has-been-digipeated-bits.

I dont disagree with you that it can be made to work without the *'s, but I just seriously question why we seem to be intent on making a system that will just "work" while throwing out perfectly good usable single BITS that are so valuable because they dont seem to meet our immediate urgent need.

I have prepared a DRAFT APRS-IS version 1.0 (through 2.0) spec. I would appreciate your input as to any version 1.0 tidbits that I may have glossed over:

<http://www.ew.usna.edu/~bruninga/aprs-is.txt>

Thanks!

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri May 24 19:36:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA17157
for <lyris.aprsspec@tapr.org>; Fri, 24 May 2002 19:36:16 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Fri, 24 May 2002 19:35:39 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81005-2002.05.24-20.11.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIDfHy8Q6ootiibTyWVgKIC1yuLwAA9kDA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EBD@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA17157

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]

> Posted At: Friday, May 24, 2002 6:41 PM

> Subject: [aprsspec] RE: Injecting IGate identification

>

> I have prepared a DRAFT APRS-IS version 1.0 (through 2.0)

> spec. I would

> appreciate your input as to any version 1.0 tidbits that I may have

> glossed over:

>

<http://www.ew.usna.edu/~bruninga/aprs-is.txt>

Good work, Bob. However, there are a couple of things that should be considered about APRS-IS 1.0. First, as discussed, IGates could and, I think we agree, should pass the payload of a third-party packet into APRS-IS if that packet did not originate from APRS-IS. APRS-IS 1.0 simply says "no third-party packets shall be transported on the Internet." What this means is that no packets with a data type of } will appear on the Internet feed. Once an IGate strips the AX.25 header and } from a third-party packet, it is now "legal" to be transported via APRS-IS. Current IGates have implemented a simpler filter, which we all agree, should be less restrictive by keying on the TCPIP or TCPXX in the third-party header instead of the } data type. Of course, everything before and including the } should not appear on the APRS-IS or any other non-AX.25 network.

APRS-IS does not require that the headers meet AX.25 specifications. For example, 9 character callsigns, character SSID's, 9+ via, etc. Within the framework of a third-party packet, there is no problem with this. However, this is definitely not compatible with the idea of gating back to RF in non-third-party format. Also, a legal AX.25 packet may enter APRS-IS but not have enough room for all of the header insertions suggested to be done at the IGates and have an outbound path. I fully believe that you actually start crippling APRS-IS if you force the headers to be completely compliant with AX.25 requirements.

The third-party packet specification is a good specification from the standpoint of identifying where the packets came from. It leaves the non-AX.25 network free to support valid APRS packets that might not, after multiple different network traversals, meet the AX.25 header requirements. It also allows for more than 16 stations to exist for a single callsign in the world.

Do you really want to restrict APRS-IS to only support the restrictive AX.25 header specification? As I have said before, I like the idea of having a full path history in the packet, including the callsign of the insertion IGate. But, very quickly, you run out of via as specified in APRS-IS. You also force non-RF APRS applications to adhere to the AX.25 naming requirements. Why don't we leave this flexible, too?

It is generally agreed that APRS-IS only supports 9 letter callsign-SSID's, but most of the server and IGate code that I am aware of allows those 9 letters to be any combination of letters, digits, and/or a hyphen. You are asking a large number of APRS operators to completely rethink how they interact on the Internet.

The third-party packet is a simple, yet very effective way to allow multiple APRS networks to communicate without the burdensome

restrictions of AX.25 limits while being carried on another network. However, with those restrictions removed, it forces those packets to be reintroduced to an AX.25 network using a mechanism such as the third-party packet.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 02:44:13 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA05086
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 02:44:12 -0500 (CDT)
Message-ID: <LYR11589-81062-2002.05.25-03.19.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 25 May 2002 08:39:19 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: Injecting IGate identification
References: <LYR11586-80891-2002.05.24-12.36.33--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR26815-80995-2002.05.24-19.15.58--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-80995-2002.05.24-19.15.58--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <LOGR9hAn+z78EwhM@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-80995-2002.05.24-19.15.58--roger#peaksys.co.uk@lists.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes
[snip]

>We should not be building a network routing system based on assumptions

>and inferences and ambiguous routing indicators. Every DIGIPEATER field
>in AX.25 indicates TWO separate and distinct functions:

>
> 1) An INTENDED ROUTE,
> 2) A mark as to whether that ROUTE was used
>

>These two separate and distinct functions must never be blurred.

But you are blurring them -

G4IDE>APRS,RELAY,WIDE,MYGATE*,I

by any **normal** interpretation means that the frame has travelled via
RELAY, WIDE and MYGATE. In fact it has gone straight from G4IDE to
MYGATE.

[Big snip]

>That is why we must avoid assumptions and standardize on the TAPR2 header
>with ALL has-been-used marks INTACT. This is the only complete,
>unambiguous, AX.25 header ASCII conversion that we should be considering.

But what you are doing is not unambiguous, you are going to create a
frame header than lies about the RF path, unless it is analysed in a
non-standard way that takes account of the special meaning of the last
two digis.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 08:08:00 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA22392
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 08:07:59 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 25 May 2002 09:07:42 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification

In-Reply-To: <LYR11586-81005-2002.05.24-20.11.32--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-81083-2002.05.25-08.43.27--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205250854400.24437-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Fri, 24 May 2002, AE5PL Lists wrote about the APRS-IS draft spec:

> Good work, Bob. However, there are a couple of things that should be
> considered about APRS-IS 1.0. First, as discussed, IGates could and, I
> think we agree, should pass the payload of a third-party packet into
> APRS-IS if that packet did not originate from APRS-IS.

Yes, but I wouldnt call that 1.0 since it does not exist now. I call that
APRS-IS 1.2. for clarity...

>
> APRS-IS does not require that the headers meet AX.25 specifications.
> this. However, this is definitely not compatible with the idea of
> gating back to RF in non-third-party format. Also, a legal AX.25 packet
> may enter APRS-IS but not have enough room for all of the header
> insertions suggested to be done at the IGates and have an outbound path.

That is why I propose that all headers be reduced to the 7 hop model that
I proposed:

- First field: RF source digi
- 2nd field: RF WIDEn-N number of hops
- 3rd field: Injecting Igate
- 4th field: I or I* deoending on validation or not
- 5th field: IS-2-RF Igate
- 6th Field: RF-re-insertion digi
- 7th field: RF Widen-N number of hops

Every packet that traverses the IS RFend-2-RFend can fit that model.
And it gives full traceabilty.

> Do you really want to restrict APRS-IS to only support the restrictive

> AX.25 header specification?

It seems like something worth trying.

> As I have said before, I like the idea of having a full path history in
> the packet, including the callsign of the insertion IGate. But, very
> quickly, you run out of via as specified in APRS-IS. You also force
> non-RF APRS applications to adhere to the AX.25 naming requirements.
> Why don't we leave this flexible, too?

Notice that in my specification, the 3rd party format may ALWAYS be used
for all the flexibility and total of 16 possible path hops if needed. It
is never obsoleted. In fact, it is strengthened by being able to be used
ANYWHERE for any untold purpose as well as its current use.

> It is generally agreed that APRS-IS only supports 9 letter
> callsign-SSID's, but most of the server and IGate code that I am aware
> of allows those 9 letters to be any combination of letters, digits,
> and/or a hyphen. You are asking a large number of APRS operators to
> completely rethink how they interact on the Internet.

All of these constructs remain perfectly viable as they are now since the
3rd party format may forever still be used to ship any non-compliant
packet anywhere...

> The third-party packet is a simple, yet very effective way to allow
> multiple APRS networks to communicate without the burdensome
> restrictions of AX.25 limits while being carried on another network.
> However, with those restrictions removed, it forces those packets to be
> reintroduced to an AX.25 network using a mechanism such as the
> third-party packet.

Yes, and it may continue to be used that way.

What I am talking about is a compatible option for handling
all those other packets that don't need these non-compliant constructs.
Both can work independently in the APRS-IS...

De wb4apr, bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 09:08:35 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24078
for <lyris.aprsspec@tappr.org>; Sat, 25 May 2002 09:08:34 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 09:08:04 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81094-2002.05.25-09.43.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcID7WtoelahuM8cREWpiE+BIyPtFQABmJXQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EBF@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id JAA24078

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Saturday, May 25, 2002 8:10 AM
> Subject: [aprsspec] RE: Injecting IGate identification
>

> That is why I propose that all headers be reduced to the 7
> hop model that
> I proposed:

>
> First field: RF source digi
> 2nd field: RF WIDEn-N number of hops
> 3rd field: Injecting Igate
> 4th field: I or I* depending on validation or not
> 5th field: IS-2-RF Igate
> 6th Field: RF-re-insertion digi
> 7th field: RF Widen-N number of hops
>

> Every packet that traverses the IS RFend-2-RFend can fit that model.
> And it gives full traceability.

How? If the packet is received as
CALL1>APRS,DIGI1,DIGI2,DIGI3,DIGI4*,DIGI5 your model will lose all of
the prior RF path to DIGI4 thereby causing CALL1 to not know how their
packet got to the Internet. If you do this stripping at the injection
point, that information is lost for good.

> > Do you really want to restrict APRS-IS to only support the
> restrictive
> > AX.25 header specification?
>
> It seems like something worth trying.

I don't understand why you want to reduce the flexibility of APRS-IS.

> Notice that in my specification, the 3rd party format may
> ALWAYS be used
> for all the flexibility and total of 16 possible path hops if
> needed. It
> is never obsoleted. In fact, it is strengthened by being
> able to be used
> ANYWHERE for any unfortold purpose as well as its current use.

But it is also weakened by saying "sometimes" an IGate will not use the
third-party format.

> All of these constructs remain perfectly viable as they are
> now since the
> 3rd party format may forever still be used to ship any non-compliant
> packet anywhere...

But then you are saying that the IGate using packet regeneration must
also support third-party format. If that is the case, why bother
increasing the complexity of operations which packet regeneration would
do. Why not stick with a simple, straight-forward approach which you
already have with third-party packets?

> What I am talking about is a compatible option for handling
> all those other packets that dont need these non-compliant constructs.
> Both can work independently in the APRS-IS...

But you are increasing the complexity of the IGate tremendously. And if
the IGate that is doing the packet regeneration must also do third-party
packets, where is there any gain?

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>

mailto:pete@ae5pl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 11:46:36 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA01488
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 11:46:34 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 25 May 2002 12:46:00 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81062-2002.05.25-03.19.39--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81126-2002.05.25-12.21.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205251235090.13192-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 25 May 2002, Roger Barker wrote:

> >and inferences and ambiguous routing indicators. Every DIGIPEATER field
> >in AX.25 indicates TWO separate and distinct functions:
> >
> > 1) An INTENDED ROUTE,
> > 2) A mark as to whether that ROUTE was used
> >
> >These two separate and distinct functions must never be blurred.
>
> But you are blurring them -
>

> G4IDE>APRS,RELAY,WIDE,MYGATE*,I

>

> by any *normal* interpretation means that the frame has travelled via
> RELAY, WIDE and MYGATE. In fact it has gone straight from G4IDE to
> MYGATE.

Ah, but that is why I want to change it. Your example above is the crippled TAPR2 version I want to fix by moving towards the standard that ALL has-been-digipeated bits are marked always in ASCII path representations and standardize on that. APRS does not require and in many cases does not use sequential HOP processing. We must preserve the has-been-digipeated bits (shown as a *) to keep up with APRS and not be tied into the point-to-point legacies of 1980's connected packet.

> >That is why we must avoid assumptions and standardize on the TAPR2 header
> >with ALL has-been-used marks INTACT. This is the only complete,
> >unambiguous, AX.25 header ASCII conversion that we should be considering.
>

> But what you are doing is not unambiguous, you are going to create a
> frame header than lies about the RF path, unless it is analysed in a
> non-standard way that takes account of the special meaning of the last
> two digis.

I guess I dont follow your example. The standard I want is that ALL ASCII headers forwarded into the APRS-IS will have either a * meaning the path was "used" or not, indicating it was an unused path. Then we can strip off unused paths if we want for brevity...

Again, the reason we have this golden opportunity now is that ALL authors seem to agree that we must pre-process headers going INTO the APRS-IS and can no longer afford to just accpet ANYTHING. We have to process the header anyway to insert the MYGATE*,I so we may as well take the best, non-ambiguous method at this point and all agree to use it.

I propose the standard that all ASCII path headers are in TAPR2 format including the marking of ALL has-been-used bits with a *. This is part of APRS-IS version 1.1. I agree with you completely that what we are using now, the classic TAPR2 version with suppressed *'s is completely ambiguous. Thus we must move on.. and use an unambiguous standard...

Thanks.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat May 25 12:08:04 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA02477
for <lyris.aprsspec@tappr.org>; Sat, 25 May 2002 12:08:02 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 25 May 2002 13:07:25 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81094-2002.05.25-09.43.52--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-81131-2002.05.25-12.43.20--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205251252010.13192-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> > From: Bob Bruninga [mailto:bruninga@usna.edu]
> > That is why I propose that all headers be reduced to the 7
> > hop model that I proposed:
> >
> > First field: RF source digi
> > 2nd field: RF WIDEn-N number of hops
> > 3rd field: Injecting Igate
> > 4th field: I or I* depending on validation or not
> > 5th field: IS-2-RF Igate
> > 6th Field: RF-re-insertion digi
> > 7th field: RF Widen-N number of hops
> >
> > Every packet that traverses the IS RFend-2-RFend can fit that model.
> > And it gives full traceability.
>
> How? If the packet is received as
> CALL1>APRS,DIGI1,DIGI2,DIGI3,DIGI4*,DIGI5 your model will lose all of

> the prior RF path to DIGI4 thereby causing CALL1 to not know how their
> packet got to the Internet. If you do this stripping at the injection
> point, that information is lost for good.

I don't follow your example at all? Where are you talking about "received as"? If you mean at the injection point, then the above packet "could" be stripped down to only DIGI1*,HOPS4*,IJGATE*,I going into the APRS-IS. It retains everything I need to know:

- 1) Where the packet entered the RF system (DIGI1*)
- 2) How many hops it took to get to the IGate (HOPS4*)
- 3) What IGate injected it into the APRS-IS (IJGATE*)
- 4) And the fact that it was then injected into the APRS-IS (,I)

Now at the other end, (remember, 3rd party format may still be used...) OR, the RGATE that passes it back to RF can use KISS mode and put it back on RF as follows:

```
FROM>TO,DIGI1*,HOPS4*,IJGATE*,I*,RGATE*,DIGIz,WIDEn-N:data
```

This path arrives with all of the important parts of its path history intact... and it is a fully compliant AX.25 header to boot...

> I don't understand why you want to reduce the flexibility of APRS-IS.

I think you are still completely missing the point. I am not reducing the flexibility, but expanding it!. ALL of the old formats are still possible. The old 3rd party format may continue to be used as long as anyone has a need for it. I am only coming up with added flexibility to allow other processes (that are more efficient) to work also... The 3rd party format is still allowed as we have previously discussed and in fact is strengthened because it can be used incoming too...

> But it is also weakened by saying "sometimes" an IGate will not use the
> third-party format.

What is that a weakening? It is a strengthening of the APRS-IS to handle both...

>

> > All of these constructs remain perfectly viable as they are
> > now since the
> > 3rd party format may forever still be used to ship any non-compliant
> > packet anywhere...

> But then you are saying that the IGate using packet regeneration must
> also support third-party format.

Because EVERY APRS process should support 3rd party anyway. It has allways been a fundamental part of APRS and I think everyone does already support it.

> If that is the case, why bother increasing the complexity of operations
> which packet regeneration would do. Why not stick with a simple,
> straight-forward approach which you already have with third-party
> packets?

Because it is not increasing complexity, but the opposite. What is simpler than using KISS to regenerate a packet and eliminate the overhead of packets within packets?

> > What I am talking about is a compatible option for handling
> > all those other packets that dont need these non-compliant constructs.
> > Both can work independently in the APRS-IS...

> But you are increasing the complexity of the IGate tremendously. And if
> the IGate that is doing the packet regeneration must also do third-party
> packets, where is there any gain?

Because the current system is broken and is falling apart with no source accountability and with ever increasing entropy. Anything worth doing is not necessarily supposed to be the easiest way. I think it is time to move out with an improved system.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 13:38:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA06977
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 13:38:34 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 13:38:20 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81147-2002.05.25-14.14.03--
lyris.aprsspec#tapr.org@lists.tapr.org>

Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIEDs12cqNkDBKsTzqMtpX/J/58nQACMr9A
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC0@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA06977

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Saturday, May 25, 2002 12:09 PM
> Subject: [aprsspec] RE: Injecting IGate identification
>
> as"? If you mean at the injection point, then the above
> packet "could"
> be stripped down to only DIGI1*,HOPS4*,IJGATE*,I going into
> the APRS-IS.
> It retains everything I need to know:

But it does not provide a true routing history of the packet. If someone wanted to reduce the dependence on generic digipeating to message with someone, your method precludes that from happening. It also puts a stumbling block in the way of people trying to create routing devices or applications for APRS.

> Because it is not increasing complexity, but the opposite. What is
> simpler than using KISS to regenerate a packet and eliminate
> the overhead
> of packets within packets?

But you ARE adding a layer of complexity by now saying there are two ways for a packet to be reintroduced into the AX.25 world. And, you are adding complexity for the reintroducing IGate to differentiate between those packets that can be regenerated and those that can't. And what overhead do you save? The FROMCALL of the IGate and a } data type? I don't think 10 bytes is worth the added complexity you would be introducing.

> Because the current system is broken and is falling apart
> with no source

> accountability and with ever increasing entropy. Anything
> worth doing is
> not necessarily supposed to be the easiest way. I think it is time to
> move out with an improved system.

How is it broken? There are problems, yes. But your proposal of adding another layer of complexity does nothing to fix those problems. The problems are primarily related to IGate software which do not handle current packets properly. The APRS-IS system is finally beginning to stabilize. Worldwide communication between local RF environments is possible. Let's push to have the IGate authors fix what they have today. Let's not try to force them into trying to account for another layer of complexity which would remove routing information from the header.

Adding the ",MYCALL,I*" at the injection point to a header after trimming non-used digis is a nice enhancement for traceability. Trimming out used digis reduces traceability and renders routing algorithms useless. Nothing is gained by using KISS to regenerate a packet if the IGate still needs to interpret the packet and possibly send it as a third-party packet. And, nothing is gained by using KISS if the RF path desired takes more than 2 distinct hops.

On the surface, KISS packet regeneration is a good idea. However, when the ramifications of the increased complexity of IGates having to interpret 2 different types of packet routes, of reduced routing information, and of maintaining support for non-AX.25 compliant headers is accounted for, I don't think 10 bytes of packet overhead is worth it.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 14:25:55 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08345
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 14:25:53 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0

Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 14:25:44 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81160-2002.05.25-15.01.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIEDs12cqNkDBKsTzqMtpX/J/58nQACMr9AAAJCR3A=
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC2@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id 0AA08345

> -----Original Message-----

> From: AE5PL Lists

> Posted At: Saturday, May 25, 2002 1:39 PM

> Subject: [aprsspec] RE: Injecting IGate identification

>

> another layer of complexity does nothing to fix those problems. The
> problems are primarily related to IGate software which do not handle
> current packets properly. The APRS-IS system is finally beginning to

By the way, IMO IGate software is currently the most complex and difficult APRS application to write. The IGate authors have had to "make it up as they go" for the most part and the logic is not trivial. I think they have done an excellent job of getting their software to play well under the varied environments that exist. I do not want to see their job made harder by adding more variables into their already complex equation.

I would say that 90% of the problems seen on APRS-IS have been IGate caused (mangled packets, Mic-E conversions, etc.) and improper server configurations (servers randomly interconnected, using wrong ports, etc.). The first is being actively worked on by the IGate authors. The second gets worked on as they occur. I am attempting to help avoid the second with javAPRSSrvr by doing the initial configuration for each user. I also make sure that it goes to a licensed ham for verification purposes.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 20:39:54 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA23680
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 20:39:53 -0500 (CDT)
Message-ID: <LYR11589-81179-2002.05.25-21.15.26--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 25 May 2002 21:39:37 -0400
From: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Another IStream Validation Approach
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Message-Id: <3CF03CD9.50FDEE13@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

If I understand how things work now, it appears that Internet Stream validation could be accomplished simply and effectively, without the need for massive overhauls of the client-side software.

Think through a system whereby the frame validation takes place at the Internet Server. All Internet traffic flows through them anyway, right? It seems like a natural place to implement it and has the added advantage of not affecting any existing client-side software systems.

Then again...I may be restating a solution that was previously considered or thrown away for reasons I'm unaware of.

Ev Tupis, W2EV

--

BEACONet lets you look at the world in ways never before imagined.
<http://go.to/BEACONet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 21:05:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA25625
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 21:05:04 -0500 (CDT)
Message-ID: <LYR11589-81184-2002.05.25-21.40.29--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 25 May 2002 22:04:33 -0400
From: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Path Auditing through the IStream
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Message-Id: <3CF042B1.B6A7EFD@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

There is a great value in knowing where a frame entered and exited the IStream. Please, as the discussion on validation continues, keep in mind that it would be good to assure full path-auditing.

```
Launched                : WB4APR>RELAY,WIDE5-5:...
1st Digipeat            : WB4APR>DIGI1,WIDE5-5:...
2nd Digipeat            : WB4APR>DIGI1,DIGI2,WIDE5-4:...
IGATE RX'd and passed to IStream: WB4APR>DIGI1,DIGI2,IGATE,WIDE5-4:...
RGATE sends IStream frame to RF : WB4APR>DIGI1,DIGI2,IGATE,RGATE,WIDE5-4:
```

Also...include logic to avoid unanticipated violation of AX.25 protocol:

Launched: WB4APR>RELAY,TRACE5-5:...
Digipeat: WB4APR>DIGI1,TRACE5-5:...
Digipeat: WB4APR>DIGI1,DIGI2,TRACE5-4:...
IGATE : WB4APR>DIGI1,DIGI2,IGATE,TRACE5-4:...
RGATE : WB4APR>DIGI1,DIGI2,IGATE,RGATE,TRACE5-2:...

^

Modified by RGATE to assure a max
of 7 'hops' to assure no violation of
AX.25 protocol.

Digipeat: WB4APR>DIGI1,DIGI2,IGATE,RGATE,DIGI3,TRACE5-1:...
Digipeat: WB4APR>DIGI1,DIGI2,IGATE,RGATE,DIGI3,DIGI4,TRACE5:...

Simply stating a need. There are probably many ways to do it. :o)

Kind regards,
Ev, W2EV

--

BEACONet lets you look at the world in ways never before imagined.
<http://go.to/BEACONet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 21:11:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA26089
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 21:11:31 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Another IStream Validation Approach
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 21:11:05 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81185-2002.05.25-21.46.55--
lyris.aprsspec@tapr.org>
Thread-Topic: [aprsspec] Another IStream Validation Approach
Thread-Index: AcIEVmVIMbim13jbQ6Ge1jsPdZUNNgAA/rEg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB8F@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA26089

Validation already takes place at the APRS-IS server. The issue is regarding the validation algorithm being public domain.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Ev Tupis (W2EV) [<mailto:w2ev@rochester.rr.com>]

> Posted At: Saturday, May 25, 2002 8:41 PM

> Subject: [aprsspec] Another IStream Validation Approach

>

> Think through a system whereby the frame validation takes place at the

> Internet Server. All Internet traffic flows through them

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 21:16:05 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA26193

for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 21:16:04 -0500 (CDT)

content-class: urn:content-classes:message

Subject: [aprsspec] RE: Path Auditing through the IStream

MIME-Version: 1.0

Content-Type: text/plain;

charset="US-ASCII"

Date: Sat, 25 May 2002 21:15:48 -0500

X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3

Message-ID: <LYR11589-81186-2002.05.25-21.51.34--

lyris.aprsspec#tapr.org@lists.tapr.org>

Thread-Topic: [aprsspec] Path Auditing through the IStream

Thread-Index: AcIEWc+KU50KykykS1iZJjhAscBtEgAAMpbQ

From: "AE5PL Lists" <HamLists@ametx.com>

Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CB90@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id VAA26193

Ev,

The AX.25 limit of 8 callsigns in the path is not an issue today as packets are gated to RF using third-party packet format. Third-party packets allow the AX.25 restrictions to be adhered to on both RF sides, but allows the flexibility to add the IGate information you seek into the third-party header (see chapter 17 in the spec). The IGate that gates to RF is already identified per third-party packet rules.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Ev Tupis (W2EV) [<mailto:w2ev@rochester.rr.com>]

> Posted At: Saturday, May 25, 2002 9:06 PM

> Subject: [aprsspec] Path Auditing through the IStream

>

> There is a great value in knowing where a frame entered and exited the

> IStream. Please, as the discussion on validation continues,

> keep in mind

> that it would be good to assure full path-auditing.

>

> Also...include logic to avoid unanticipated violation of

> AX.25 protocol:

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat May 25 21:31:28 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA26885
for <lyris.aprsspec@tappr.org>; Sat, 25 May 2002 21:31:22 -0500 (CDT)
Message-ID: <LYR11589-81189-2002.05.25-22.06.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 25 May 2002 22:30:27 -0400
From: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Path Auditing through the IStream
References: <LYR21978-81186-2002.05.25-21.51.34--
w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Message-Id: <3CF048C3.1A64F01F@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

AE5PL Lists wrote:

> The AX.25 limit of 8 callsigns in the path is not an issue today as
> packets are gated to RF using third-party packet format. Third-party
> packets allow the AX.25 restrictions to be adhered to on both RF sides,
> but allows the flexibility to add the IGate information you seek into
> the third-party header (see chapter 17 in the spec). The IGate that
> gates to RF is already identified per third-party packet rules.

I just connected to AHubEast, and in 30-seconds had a ton of APRS stations
on my map. I double-click on a station in California and this is what I get
for a path:

KE6NYT-14>GPSLK,RELAY,WIDE,WIDE,WIDE:

\$GPRMC,022131,A,3411.942,N,11911.128,W,000.0,262.4,260502,014.1,E*68

>From the raw data, had I not been attached to the AHubEast, I'd think that
the band was open coast-to-coast. I see a callsign, no call
substitution...as far as I can tell, this frame made it from California to
NY -- simplex.

If the IStream path is preserved somewhere, how do I get to see it?

Asking from ignorance.

Ev, W2EV

--

BEACONet lets you look at the world in ways never before imagined.
<http://go.to/BEACONet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 22:07:03 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA28733
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 22:06:56 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 25 May 2002 23:06:32 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81147-2002.05.25-14.14.03--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81192-2002.05.25-22.42.22--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205252237570.28167-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> Bob Said:
> > If you mean at the injection point, then the above packet "could" be
> > stripped down to only DIGI1*,HOPS4*,IJGATE*,I going into the APRS-IS.
> > It retains everything I need to know:
>
> But it does not provide a true routing history of the packet. If
> someone wanted to reduce the dependence on generic digipeating to

> message with someone, your method precludes that from happening. It
> also puts a stumbling block in the way of people trying to create
> routing devices or applications for APRS.

This part of the discussion, I thought was trying to address how we handle the fact (that we all agree) is that there just will never be enough room to keep the entire path intact end-to-end or the packet becomes so long as to be impractical. I agree completely that I would like to see the entire path, but in practical terms, I see that as impossible. SO my idea above is simply my offering of a way to preserve the most important part (the entry points and number of hops) and move on...

> > Because it is not increasing complexity, but the opposite. What is
> > simpler than using KISS to regenerate a packet and eliminate
> > the overhead of packets within packets?
>
> But you ARE adding a layer of complexity by now saying there are two
> ways for a packet to be reintroduced into the AX.25 world. And, you are
> adding complexity for the reintroducing IGate to differentiate between
> those packets that can be regenerated and those that can't. And what
> overhead do you save? The FROMCALL of the IGate and a } data type? I
> don't think 10 bytes is worth the added complexity you would be
> introducing.

So what are you saying? We just dont do anything and leave the system as it is? I agree that I am adding something to the system. So?
I see lots of benefits out of it, I dont see that you are necessarily pointing out any problems with it, other than it is adding an additional construct... So?

> How is it broken? There are problems, yes. But your proposal of adding
> another layer of complexity does nothing to fix those problems.

It sure seems to me like it has the potential to fix all the problems if we figure out how to do it right...

> The problems are primarily related to IGate software which do not handle
> current packets properly. The APRS-IS system is finally beginning to
> stabilize. Worldwide communication between local RF environments is
> possible. Let's push to have the IGate authors fix what they have
> today.

That is exactly the probelm I am trying to fix. The problem is that we have NO common AGREED-TO standard of how to "handle-current-packets-properly" Your statement is like the age-ole' "buy low, sell high" advice for the stockmarket... Everyone agrees 100% that that is what is needed for success in the stock market, its just that no one knows how

to do it...

- > Let's not try to force them into trying to account for another
- > layer of complexity which would remove routing information from the
- > header.

OK, so what do you propose to handle complete paths end-to-end?

- > Adding the ",MYCALL,I*" at the injection point to a header after
- > trimming non-used digis is a nice enhancement for traceability.
- > Trimming out used digis reduces traceability and renders routing
- > algorithms useless.

I thought it was a given that we cannot possibly preserve all hops end-to-end. In fact the APRS-IS currently throws away ALL source path information! So how can you argue against my proposal which preserves the important parts and insist that we stick with what we have because my proposal does not preserve ALL of it? This just does not compute?

- > Nothing is gained by using KISS to regenerate a packet if the IGate
- > still needs to interpret the packet and possibly send it as a
- > third-party packet. And, nothing is gained by using KISS if the RF path
- > desired takes more than 2 distinct hops.

I disagree with both statements. And even if nothing was gained in some unique situations, then the IGate can simply not use KISS if it thinks 3rd party is better. We are not saying that anyone needs to move to KISS. The proposal only says it will be possible.. So, dont use kiss if you dont want to. Its an option for those that want to save the 16 Bytes on RF in every APRS-IS-to-RF packet.

- > On the surface, KISS packet regeneration is a good idea. However, when
- > the ramifications of the increased complexity of IGates having to
- > interpret 2 different types of packet routes, of reduced routing
- > information, and of maintaining support for non-AX.25 compliant headers
- > is accounted for, I don't think 10 bytes of packet overhead is worth it.

Its 16 bytes or so. And all APRS software currently has to handle dozens of formats. KISS mode adds ZERO complexity, because it is NOTHING new. a KISS packet is 100% indistinguishable from any packet on the air to day. If your software can handle ANY ax.25 packet you har right now, then it already can handle ANY kiss packet. That is the beauty of it, in that it makes the APRS-IS seamless to existing protocol...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 22:13:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA28890
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 22:13:04 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Path Auditing through the IStream
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 22:12:42 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81194-2002.05.25-22.48.29--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Path Auditing through the IStream
Thread-Index: AcIEXY1hXpkUL3GfTSui6yMgd3IZKgABCoZw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC4@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA28890

Currently, most IGates do not modify the RF->Internet headers. We have had an extensive discussion about that over the last 3 days on this SIG. It has been generally agreed that it would be good to have the RF->APRS-IS IGate trim the header per the APRS spec for third-party header trimming (chapter 17) and then append MYCALL,I*. The I* means you are seeing the packet being digi'ed by the Internet. The call preceding the I is the call of the injecting IGate.

Other than that, however, there is no differentiation between packets received via RF and packets on APRS-IS. Most client software gives you the capability to distinguish between packets received via the Internet and those packets received from RF. One of the beauties of APRS-IS is the fact that it doesn't change the packets, allowing for very clean insertion back to RF, if necessary, using the third-party packet format.

In essence, you do have a band opening. It just happens that it is via the Internet :)

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Ev Tupis (W2EV) [<mailto:w2ev@rochester.rr.com>]

> Posted At: Saturday, May 25, 2002 9:32 PM

> Subject: [aprsspec] RE: Path Auditing through the IStream

>

> From the raw data, had I not been attached to the AHubEast,

> I'd think that

> the band was open coast-to-coast. I see a callsign, no call

> substitution...as far as I can tell, this frame made it from

> California to

> NY -- simplex.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 22:36:12 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA00124

for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 22:36:04 -0500 (CDT)

content-class: urn:content-classes:message

Subject: [aprsspec] RE: Injecting IGate identification

MIME-Version: 1.0

Content-Type: text/plain;

charset="US-ASCII"

Date: Sat, 25 May 2002 22:35:54 -0500

X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3

Message-ID: <LYR11589-81202-2002.05.25-23.11.39--

lyris.aprsspec@tapr.org>

Thread-Topic: [aprsspec] RE: Injecting IGate identification

Thread-Index: AcIEYomMgP8Aj+cpSj0JVd+rCv1UUgAAP0lg

From: "AE5PL Lists" <HamLists@ametx.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC5@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA00124

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Saturday, May 25, 2002 10:08 PM
> Subject: [aprsspec] RE: Injecting IGate identification

>

> This part of the discussion, I thought was trying to address how we
> handle the fact (that we all agree) is that there just will never be
> enough room to keep the entire path intact end-to-end or the packet

No, the third-party packet format DOES let us keep the entire path intact.

> So what are you saying? We just dont do anything and leave
> the system as
> it is? I agree that I am adding something to the system. So?
> I see lots of benefits out of it, I dont see that you are necessarily
> pointing out any problems with it, other than it is adding an
> additional
> construct... So?

You are telling the IGate programmers that they now have to parse EVERY packet for I, or TCPIP, or TCPXX, not just third-party packets. Bob, the algorithms become very complex very quickly.

> It sure seems to me like it has the potential to fix all the
> problems if
> we figure out how to do it right...

What problems does this fix? I fail to see one problem that this would address. I do see some problems it could introduce.

> That is exactly the probelm I am trying to fix. The problem
> is that we
> have NO common AGREED-TO standard of how to "handle-current-packets-
> properly" Your statement is like the age-ole' "buy low, sell high"

We DO have a common AGREED-TO standard. It is the third-party packet standard defined in Chapter 17 of the spec and the APRS spec, as a whole. The problem with packets not being handled correctly by some

versions of IGate software stem primarily from interpreting various TNC settings or Mic-E packets, not APRS packets in general. The Mic-E problems are being addressed by the removal of Mic-E conversion (first put in to help accommodate findu.com). The TNC problems will always be there as long as different TNC's exist. The software writers have done a good job of tackling those issues when they come up.

> OK, so what do you propose to handle complete paths end-to-end?

Third-party packets.

> I thought it was a given that we cannot possible preserve all hops
> end-to-end. In fact the APRS-IS currently throws away ALL source path
> information! So how can you argue against my proposal which

APRS-IS does no such thing! APRS-IS, currently, preserves the ENTIRE source path, possibly to a fault. It is NOT a given that we cannot preserve all hops, end-to-end. We do it today using third-party packets. The only thing missing is identification of the IGate that injects a packet from RF to APRS-IS. And that would be covered by the addition of MYCALL, I*.

> The proposal only says it will be possible.. So, dont use kiss if you
> dont want to. Its an option for those that want to save the
> 16 Bytes on
> RF in every APRS-IS-to-RF packet.

But then every IGate can no longer assume that a non-third-party packet is from RF. There isn't enough APRS-IS to RF activity to justify adding this level of complexity to save 16 bytes for some packets (I still don't see where you get 16) by someone who might do this in the future.

> Its 16 bytes or so. AND all APRS software currently has to
> handle dozens
> of formats. KISS mode adds ZERO complexity, because it is

Not true. You add the complexity of no longer having a definite indicator of an Internet originated packet. Today, we do. It is a third-party packet with TCPIP in the third-party header.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 22:50:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA00391
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 22:50:21 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sat, 25 May 2002 22:50:08 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81204-2002.05.25-23.25.52--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIEYomMgP8Aj+cpSj0JVd+rCv1UUgAAP0lgAAD+b+A=
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC6@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA00391

> -----Original Message-----

> From: AE5PL Lists

> Posted At: Saturday, May 25, 2002 10:37 PM

> Subject: [aprsspec] RE: Injecting IGate identification

>

> You are telling the IGate programmers that they now have to

> parse EVERY

> packet for I, or TCPIP, or TCPXX, not just third-party packets. Bob,

> the algorithms become very complex very quickly.

This also affects all client software today that differentiates between
gated and RF direct packets. Is it really worth asking all software
authors to re-write their packet parsing code to accommodate the
possibility that someday, someone might not use third-party packets to

inject a gated packet into the VHF network? What we have today works. There is nothing wrong with it. Adding the possibility of gated packets appearing as regular packets gains nothing other than adding another level of complexity to already complex programs.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat May 25 23:46:13 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA01894
for <lyris.aprsspec@tapr.org>; Sat, 25 May 2002 23:46:11 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 00:45:51 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81147-2002.05.25-14.14.03--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81224-2002.05.26-00.21.42--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260040240.8735-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 25 May 2002, AE5PL Lists wrote:

> > From: Bob Bruninga [<mailto:bruninga@usna.edu>]

> > If you mean at the injection point, then the above packet "could" be
> > stripped down to only DIGI1*,HOPS4*,IJGATE*,I going into the APRS-IS.
> > It retains everything I need to know:
>
> But it does not provide a true routing history of the packet.

After some thought, I realize that I think we are in violent agreement.
The path "condensation" technique I propose above only takes place when
the packet must be routed back to RF. That is when my 7-hop model kicks
in. I may not have presented it well. When the path is injected into the
APRS-IS it remains in full with only ",IJGATE,I" tacked onto the end.
Thus it is available throughout APRSdom with full path intact.

It is only when processes need to shorten the path that then my 7 Hop
model kicks in to provide a standard technique. This only occurs when
the packet goes back to RF. In this sense, it is far better than the
current APRS-IS technique of eliminating the ENTIRE path.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 00:02:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA04494
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 00:02:22 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 01:01:56 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81160-2002.05.25-15.01.26--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81226-2002.05.26-00.37.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260055520.8735-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> By the way, IMO IGate software is currently the most complex and
> difficult APRS application to write. The IGate authors have had to
> "make it up as they go" for the most part and the logic is not trivial.

Yes, that is exactly the problem I am trying to solve. If we put down an
END goal and a phased plan to get there, then we solve that problem.

> I think they have done an excellent job of getting their software to
> play well under the varied environments that exist. I do not want to
> see their job made harder by adding more variables into their already
> complex equation.

>

> I would say that 90% of the problems seen on APRS-IS have been IGate
> caused (mangled packets, Mic-E conversions, etc.) and improper server
> configurations (servers randomly interconnected, using wrong ports,
> etc.).

That is exactly the point. With every author doing his best to define
what the APRS-IS is and with no written guidance to a common standard, we
have everyone working hard in different directions and only making things
worse instead of better.

> The first is being actively worked on by the IGate authors. The
> second gets worked on as they occur.

But what is their guidance? It is EASY to write code as long as one knows
for sure where he is going and what is his end objective. It is impossible
to write code that works reliably with everyone else when everyone else
is not necessarily working to the same end objective..

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun May 26 00:46:35 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA05707
for <lyris.aprsspec@tappr.org>; Sun, 26 May 2002 00:46:32 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 01:45:47 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Path Auditing through the IStream
In-Reply-To: <LYR11586-81194-2002.05.25-22.48.29--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-81243-2002.05.26-01.21.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260141271.8735-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> Currently, most IGates do not modify the RF->Internet headers. We have
> had an extensive discussion about that over the last 3 days on this SIG.
> It has been generally agreed that it would be good to have the
> RF->APRS-IS IGate trim the header per the APRS spec for third-party
> header trimming (chapter 17) and then append MYCALL,I*. The I* means
> you are seeing the packet being digi'ed by the Internet. The call
> preceding the I is the call of the injecting IGate.

Im a little behind on email, but just to clarify my proposal, I dont want
to trim any path information going into the APRS-IS. That is where we
have the bandwidth and want to see everything. The path "condensation"
process I suggested is only when (or if) a path needs to be truncated when
it goes back to RF... Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 01:30:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA07032
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 01:30:55 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 02:30:21 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81202-2002.05.25-23.11.39--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81267-2002.05.26-02.06.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260147130.8735-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> Bob said:
> > This part of the discussion, I thought was trying to address how we
> > handle the fact (that we all agree) is that there just will never be
> > enough room to keep the entire path intact end-to-end or the packet
>
> No, the third-party packet format DOES let us keep the entire path
> intact.

Huh? I don't follow your logic. Here is the way it looks to me:

- 1) The current APRS-IS currently truncates ALL source path data in its use of 3rd party IS-2-RF. (I want something less restrictive)
- 2) The current 3rd party format adds 16 bytes to an already very long

header. (I want to make it possible to eliminate those bytes (if we want to))...

> You are telling the IGate programmers that they now have to parse EVERY
> packet for I, or TCPIP, or TCPXX, not just third-party packets. Bob,
> the algorithms become very complex very quickly.

Really? I don't consider the following line of code "very complex":

```
If instr(packet$,"TCPIP") or INSTR(Packet$,"I") then IGNORE.
```

That does the entire job in one line. I left out the TCPXX because as Steve pointed out, that should never appear on RF in the first place. (Although I as a programmer would definitely put it in, because there never is such a thing as "never")...

> > It sure seems to me like it has the potential to fix all the
> > problems if we figure out how to do it right...
>
> What problems does this fix? I fail to see one problem that this would
> address. I do see some problems it could introduce.

The #1 problem the proposal solves is that it gives a single common objective for APRS-IS code writers (currently there is none). Further it provides for:

- 1) Injecting IGate identification (The main shortcoming of APRS-IS 1.0)
- 2) Defines a single standard for ASCII Header representation including the preservation of the HAS-BEEN-USED bit in the AX.25 digi fields
- 3) It provides for PATH PRESERVATION end-to-end for reasonable packets
- 4) It provides for a standard PATH CONDENSATION method that preserves all points of entry both in the RF and APRS-IS domain end-to-end if size limitations are exceeded
- 5) It is fully AX.25 on-air compatible.
- 6) It moves the basis for APRS-IS loop filtering to be based on actual path data through the APRS-IS instead of basing it on a second order format definition byte which is not unique to the APRS-IS and is therefore currently ambiguous...
- 7) It allows for future KISS mode implementations for seamless RF-IS-RF and any other potential non-RF linkages.

> > the problem I am trying to fix. The problem

> > is that we
> > have NO common AGREED-TO standard of how to "handle-current-packets-
> > properly" Your statement is like the age-ole' "buy low, sell high"
>
> We DO have a common AGREED-TO standard. It is the third-party packet
> standard defined in Chapter 17 of the spec and the APRS spec, as a
> whole.

But that does not do, #1, #2, #3, #4, #5, 6 nor #7 above. I think it is time to move on...

> The problem with packets not being handled correctly by some
> versions of IGate software stem primarily from interpreting various TNC
> settings or Mic-E packets, not APRS packets in general. The Mic-E
> problems are being addressed by the removal of Mic-E conversion (first
> put in to help accommodate findu.com). The TNC problems will always be
> there as long as different TNC's exist. The software writers have done
> a good job of tackling those issues when they come up.

No, we can solve the TNC differences easily and it is part of my proposal #2 above. We need to solidify to a single, unambiguous ASCII representation of AX.25 header for transfer of packets though non-AX.25 networks (such as the APRS-IS). Most authors currently target the TAPR2 standard. But that standard has one SIGNIFICANT weakness for APRS, and that is that it only displays the HAS-BEEN-USED bit of the last digi in the path. This is unacceptable to APRS which does not require sequential digi field usage and leaves us with ambiguities. The only solution is to adopt a more thorough TAPR2 type ASCII representation that preserves the HAS-BEEN-USED bit with every DIGI field. Then nothing is lost through the APRS-IS.

> > OK, so what do you propose to handle complete paths end-to-end?
>
> Third-party packets.

And nothing in my proposal does anything to eliminate 3rd party packets. In fact, by moving LOOP filtering to TCP/IP, and "I", it strengthens 3rd party format for more general use.

> Bob said:
> > I thought it was a given that we cannot possibly preserve all hops
> > end-to-end. In fact the APRS-IS currently throws away ALL source path
> > information! So how can you argue against my proposal which...
>
> APRS-IS does no such thing! APRS-IS, currently, preserves the ENTIRE
> source path, possibly to a fault. It is NOT a given that we cannot
> preserve all hops, end-to-end. We do it today using third-party

> packets.

That is not my understanding. Every APRS-IS packet I see back on RF throws away ALL source path information and substitutes TCPIP in its place. In fact, I think chapter 16 requires it (though I don't have my copy here handy)...

> The only thing missing is identification of the IGate that injects a
> packet from RF to APRS-IS. And that would be covered by the addition of
> MYCALL, I*.

Yep, I'm trying to put a label on that capability by calling that part of APRS-IS 1.1 in the proposal... But so far a few high profile authors have not implemented it... and so we need to continue to stress the importance of this to them...

> > The proposal only says it will be possible.. So, don't use kiss if you
> > don't want to. It's an option for those that want to save the
> > 16 Bytes on RF in every APRS-IS-to-RF packet.

>

> But then every IGate can no longer assume that a non-third-party packet
> is from RF. There isn't enough APRS-IS to RF activity to justify adding
> this level of complexity to save 16 bytes for some packets (I still
> don't see where you get 16) by someone who might do this in the future.

I can think of MANY present and future applications that can benefit greatly from not only KISS regeneration but also general use of 3rd party format. BOTH OF THESE are completely blocked because of the current APRS-IS loop filter dependency on 3rd party as the only loop filter. In my opinion, we must move away from that dependency and eliminate this roadblock to future development!

> > And all APRS software currently has to > > handle dozens
> > of formats. KISS mode adds ZERO complexity, because it is...

>

> Not true. You add the complexity of no longer having a definite
> indicator of an Internet originated packet. Today, we do. It is a
> third-party packet with TCPIP in the third-party header.

So why then the dependency on 3rd party filtering since filtering on only the "TCPIP" will do the job. By eliminating the dependency on 3rd party as the loop filter, and moving filtering to the PATH data that indicates the packet actually WENT through the APRS-IS is the logically consistent way to do things..

And it frees up both 3rd party and KISS processing for lots of present and future applications and places filtering where it is supposed to be (on

path data) not on construct...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 01:44:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA07332
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 01:44:32 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 02:44:03 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81204-2002.05.25-23.25.52--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81269-2002.05.26-02.19.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260231280.8735-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 25 May 2002, AE5PL Lists wrote:

> This also affects all client software today that differentiates between
> gated and RF direct packets. Is it really worth asking all software
> authors to re-write their packet parsing code to accommodate the
> possibility that someday, someone might not use third-party packets to
> inject a gated packet into the VHF network?..

All APRS-IS packets under my proposal will be trivial to recognize. One
line of code can do it. Here it is:

If INSTR(packet\$,"I,") or INSTR(packet\$,"I:") then THIS-IS-GATED

> What we have today works. There is nothing wrong with it.

I think it is a great system. But Steve has publically stated that its one big shortocming is the lack of source identification. Adding that REQUIRES incomming packet header processing. and once you have to add that to ALL Igates, then it s trivial to fix a few other things while we are at it. All of the 7 items that I have elaborated above are trivial to do, once you have already taken the step of parsing the incoming header. My point is why not then do them?

> Adding the possibility of gated packets appearing as regular packets
> gains nothing other than adding another level of complexity to already
> complex programs.

I just dont think most code writers will find this overly complex. And since they MUST add the additional processing already inorder to do IGate Injection identification, then the rest is trivial. So I think that unless you are saying we dont want Injection-Igate-Identification, then your arguments about added complexity are moot.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 03:44:42 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA20829
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 03:44:36 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sun, 26 May 2002 03:44:14 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81272-2002.05.26-04.20.07--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification

Thread-Index: AcIEgN6sai82ZGeJS0urXV8a1LBdnAACulWg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EC7@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id DAA20829

I wish to clarify what I have been saying so that there is no misunderstanding. Reading the snipped emails shows me that there may be some out-of-context interpretation being done.

1. APRS-IS is not broken. There is software in existence that does not comply with the APRS specification. There are TNC's poorly configured which confuse the APRS software. There are other issues that have nothing to do with this thread such as server interconnections and verification.
2. Third-party packets should follow the specification regarding source header format (trimming all unused digis and removing all * before appending TCPIP,MYCALL2RF*). If software doesn't do this, it needs to be corrected in that software. If the source header ends in TCPIP or TCPXX, only MYCALL2RF* need be appended.
3. I agree that injection IGate identification should exist. After looking at statement #2, I think the insertion identification should be done after performing the third-party header trim function. Then, the insertion identification should be MYCALLIN,TCPIP* This indicates "was digi'ed by MYCALLIN and is seen digi'ed by the Internet". Then, the end gating back to RF would only need to remove the * and add MYCALL2RF* to the outgoing third-party packet header.

The above statements show that a specification does exist today in the standard APRS spec for gated packets. #3 is a fully backward-compatible addition to that specification.

I believe that adding the possibility for gated packets to appear as non-third-party packets does the following:

1. Makes all IGate software that currently exists incompatible with those packets as no IGate software currently considers non-third-party

packets as gated.

2. Makes all client software that currently differentiates between RF and gated packets incompatible with those packets.
3. Introduces the possibility of path history loss due to AX.25 restrictions.
4. Adds a level of complexity currently not defined in the APRS specification.

A quick look at the APRS-IS data stream shows that we can't "force" someone to upgrade their software. We see this all of the time with older IGate software with known bugs still being used. If number 1 regarding gating as standard packets is true, then we introduce a definite loop problem as older software will not know when not to gate the packet to the Internet and the servers would have no way of knowing whether a packet was originated on the Internet or gated to the Internet. This means that the servers would have no protection against this type of loop if the packet is gated back to the Internet outside of the dupe check algorithm limits.

While maybe not the absolute most efficient format from the standpoint of length, third-party packets provide a well-defined method for gating packets to an AX.25 medium. By definition, gated packets are the exception, not the rule. The .1 to .2 second transmission savings for the packets that could be transmitted in AX.25 format may not be worth introducing the incompatibilities listed above.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 07:39:18 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA29080
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 07:39:14 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 08:38:00 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: TAPR APRS SIG <aprssig@lists.tappr.org>
Subject: [aprsspec] The original APRS plan
Message-ID: <LYR11589-81295-2002.05.26-08.13.53--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260802190.6424-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

For what it is worth, here is what I wanted as the ultimate APRS routing plan back in 1995 when I was trying to come up with the shortest possible packet for the Mic-E (and later the kenwoods):

SSID-ROUTING: This uses the SSID on the TOCALL to indicate N hops just like we do WIDEn-N. But since it is the SSID on the TOCALL, then there is no need for the 7 byte or any additional 7 byte digi fields. Thus

MYCALL>TOCALL-N:'LLLCS/\$

Was a complete Position/Status/Comment packet and only took 0.2 seconds. This capability is built into every Mic-E and or Kenwood, and in fact can still be done by ANY TNC. But three things went wrong preventing its wide spread usage:

1) The only DIGI-writers to implement SSID routing were DIGI_NED, UI-DIGI and Kenwood.

2) The SSID-N just like the WIDEn-N expected the FIRST digipeater to do callsign substitution, so that the path was traceable back to the RF injection point. This was destroyed by Kantronics missinterpretation of my spec, and they made all WIDEn-N digi's insert the LAST digipeater. This is the well known issue that I beat to this day, that NOID must be enabled so that Kantronics TNC's do not do this. If ID is on, then kantronics destroy the SOURCE-DIGI field.

2.5) Notice, that because of this Kantronics error, that we individually have to put the SOURCE digi into the packet ourselves as WIDE,WIDEn-N. And this causes dupes in the network and now requires 14 additional bytes

in every packet over what SSID routing could do.

3) One popular application (against my strong objections) began using the TOCALL SSID for other purposes. Thus these packets would do wild things if ever introduced on 144.39 if SSID routing were implemented.

We have several things (Finally) that can bring SSID routing back out of the closet and let it revolutionize APRS with shorter packets. Remember that SSID routing is 100% identical with WIDEn-N but it saves 7 to 14 bytes in every packet. And for a Mic-E, Tiny-Track, MIM or Kenwood posit packet which is only 23 bytes long in the first place, that is a 25% to 35% improvement!

We could actually realize SSID routing in the future because:

- A) More and more people are using UIDIGI, DIGI_NED, and other home-grown digipeater software. These run on any-old TAPR-2 TNC and there are hundreds of thousands of those around...
- B) Kantronics is probably working on a follow on release? I have no knowledge, but it has been a long time since they had a release. (Except then we would have to suffer the complaints of everyone (over the \$60 upgrade cost)...
- C) More and more people are accepting the idea that the most important digi for path tracing is the FIRST one. The place where the guy is and the place where the packet first enters the network. (NOID)
- D) The other application that uses TOCALL ssid's for other purposes remains on another frequency and so far has not been a problem.
- E) We need everything we can to improve network efficiency.

If you want to hear how short a Mic-E packet is with SSID routing, take your kenwood, change its path to "3". Not RELAY, NOT WIDE, not WIDE3-3 but simply 3. Then change the transmit mode from AUTO to PTT. Then push and release your PTT button. Short and sweet!

AND it is 100% equivalent to "DIGI1,WIDEn-N" if the network would just do it that way saving actually 14 bytes per packet.

Anyway, jsut something to chew-on...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 07:48:06 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA29759
for lyris.aprsspec@tapr.org; Sun, 26 May 2002 07:48:05 -0500 (CDT)
Message-ID: <LYR11589-81298-2002.05.26-08.22.58--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 26 May 2002 08:44:53 -0400
From: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] Re: Message Authentication (was Re: we have a
loop)
References: <LYR21977-81233-2002.05.26-01.04.32--
w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@rochester.rr.com>
X-Message-Id: <3CF0D8C5.99450DAF@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> That is where we stand today, a couple of years later. I very
> definitely hope someone comes up with a secure open source solution
> which allows the stream to be secured again. Designing and
> administering such a system will be a lot of work, and I'm not
> surprised no one has taken this on. Until it happens, the APRS IS
> remains vulnerable, and could become unusable at any time.

I won't chime-in any longer on this topic, other than this last time. It's
become obvious that we're in the same position with this thread as we were a
couple of years ago with the APRS Protocol Specification discussion. Until
things are fully documented as they are, it will be difficult to offer any
assistance in getting us to where we need to be.

Until then, only those that are actually coding to the IStream really know
the ins and outs and the rest of us are often times suggesting solutions
that can't work for one reason or another.

With that in mind, my last comment (other than if a point endagers an eventual BEACONet use of the IStream) is below...

Consider a server-side rather than client-side solution, not unlike a router table. When an author generates a "registered" copy of their software they submit a proprietary hash to the client and both the callsign and hash to the server.

- o Authors are still generating the hash table...they simply send the 'registration' information to two places, rather than one.
- o Each author can use their own proprietary hash-table
- o Authors simply share their hash-table with the APRS-WG for archival
- o New authors could be evaluated prior to being given access to update the server table

The risk profile is significantly reduced.

Client-side software requires no (or minimal) modification (aside: if the hashcode for accessing the IStream changed, it would force software upgrades...maybe not a bad thing anyway).

Server-side software does. :o)

With kind regards,

Ev, W2EV

--

BEACONet lets you look at the world in ways never before imagined.

<http://go.to/BEACONet>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 08:03:45 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA00971

for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 08:03:37 -0500 (CDT)

X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs

Date: Sun, 26 May 2002 09:03:24 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>

X-X-Sender: bruninga@arctic

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: Injecting IGate identification

In-Reply-To: <LYR11586-81272-2002.05.26-04.20.07>--

bruninga#nadm.navy.mil@lists.tapr.org

Message-ID: <LYR11589-81300-2002.05.26-08.39.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205260840440.6424-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 26 May 2002, AE5PL Lists clarified his posts:

> 1. APRS-IS is not broken. There is software in existence that does not
> comply with the APRS specification. There are TNC's poorly configured
> which confuse the APRS software. There are other issues that have
> nothing to do with this thread such as server interconnections and
> verification.

All of those add up to a big mess. "Broken" was a poor choice of words on my part. But EVERY code writer involved in the APRS-IS to my knowledge admits that things are a "mess!".

> 3. I agree that injection IGate identification should exist. After
> looking at statement #2, I think the insertion identification should be
> done after performing the third-party header trim function.

Impossible. Currently the header TRIM function is done at the DX end long after the packet was injected into the APRSIS. If you wait till then, then you have no clue where it came from, or if you somehow solve that problem, then you are trimming at injection, which I though we all agreed was not what we want. We want the PATH data to remain intact into the APRS-IS because of its WEALTH of information. If you trim at injection, then FINDU would never be able to show you the path of your packets.

> Then, the
> insertion identification should be MYCALLIN,TCPIP* This indicates "was
> digi'ed by MYCALLIN and is seen digi'ed by the Internet". Then, the end
> gating back to RF would only need to remove the * and add MYCALL2RF* to
> the outgoing third-party packet header.

We should never be discarding valuable "has-been-used" bits (the *). In your example above, then there is total ambiguity in the MYCALLIN field.

Was it the IGate, or was it an intended (but unused) path in the original packet?

> #3 is a fully backward-compatible addition to that specification.

But is impossible to implement (as written), removes all PATH information at injection. Continues our dependence on 3rd party as the only loop filter, prevents use of the more efficient KISS mode implementations, prevents any other use of the 3rd party format, and stagnates us to the status quo.

> I believe that adding the possibility for gated packets to appear as
> non-third-party packets does the following:

>

> 1. Makes all IGate software that currently exists incompatible with
> those packets as no IGate software currently considers non-third-party
> packets as gated.

That is why we are trying to define our goals for the future.

> 2. Makes all client software that currently differentiates between RF
> and gated packets incompatible with those packets.

That is why we are trying to define our goals for the future.

> 3. Introduces the possibility of path history loss due to AX.25
> restrictions.

Exactly the opposite. Makes it possible for PATH preservation for typical packets end-to-end through the APRS-IS

> 4. Adds a level of complexity currently not defined in the APRS
> specification.

Which is trivial to do. Big deal...

> A quick look at the APRS-IS data stream shows that we can't "force"
> someone to upgrade their software. We see this all of the time with
> older IGate software with known bugs still being used. If number 1
> regarding gating as standard packets is true, then we introduce a
> definite loop problem as older software will not know when not to gate
> the packet to the Internet and the servers would have no way of knowing
> whether a packet was originated on the Internet or gated to the
> Internet. This means that the servers would have no protection against
> this type of loop if the packet is gated back to the Internet outside of
> the dupe check algorithm limits.

I disagree completely. If done as I proposed, the plan is fully backward

compatible, AND also it has a mechanism for detection obsolete software and disconnecting it from the network automatically if we want so that the NETWORK can protect its processes from old obsolete software. That is the whole point. The current process has no such mechanism!

The network must have a plan, and the plan must allow the network to assure compatibility or we have gained nothing and are forever stuck in the mess we have now. Sticking with what we have is not what we should be focused on when it has some particular constructs that tie our hands from doing what needs to be done.

> While maybe not the absolute most efficient format from the standpoint
> of length, third-party packets provide a well-defined method for gating
> packets to an AX.25 medium. By definition, gated packets are the
> exception, not the rule. The .1 to .2 second transmission savings for
> the packets that could be transmitted in AX.25 format may not be worth
> introducing the incompatibilities listed above.

Its called progress. I agree that the .1 second savings are not at all the driving force. Go back and look at the 7 advantages I enumerated. Only one of them is the .1 second savings.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 09:15:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA03308
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 09:15:15 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Date: Sun, 26 May 2002 09:14:34 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81317-2002.05.26-09.50.30--
lyris.aprsspec@tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIEtdgj+FbyvZWwR3quGu/BI5+F+wAA3q2A
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048ECA@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA03308

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Sunday, May 26, 2002 8:04 AM
> Subject: [aprsspec] RE: Injecting IGate identification

>

> All of those add up to a big mess. "Broken" was a poor
> choice of words on
> my part. But EVERY code writer involved in the APRS-IS to my
> knowledge
> admits that things are a "mess!".

But not due to the design of APRS-IS. What we are talking about here is specifications for IGates, not an APRS-IS specification. And we are talking, in some cases, about software that does not conform to the current APRS specification.

> > 3. I agree that injection IGate identification should exist. After
> > looking at statement #2, I think the insertion
> > identification should be
> > done after performing the third-party header trim function.
>
> Impossible. Currently the header TRIM function is done at the DX end

Bob, you completely misunderstood what I was saying. I was saying that the trim function should be done at the receiving end before adding the insertion identification. It would have NO affect (other than make things simpler) for the DX end.

> We should never be discarding valuable "has-been-used" bits

We are not. The definition of the TNC-2 header says that ALL digis up to and including the one with the * have been used. If you want to have the insertion IGate put asterisks on every digi up to the one with the *, fine.

> your example above, then there is total ambiguity in the
> MYCALLIN field.

> Was it the IGate, or was it an intended (but unused) path in
> theoriginal
> packet?

No, Bob, it is not ambiguous. If you see a TCPIP* at the end of the path, then the previous callsign is the IGate. This accomplishes the EXACT same thing as your "I" without adding another variable to the equation. Again, if you want all of the via fields given an asterisk, it has no affect on the overall meaning.

> > #3 is a fully backward-compatible addition to that specification.
>
> But is impossible to implement (as written), removes all PATH
> information
> at injection. Continues our dependence on 3rd party as the only loop

It does NOT. It removes all UNUSED path information. Re-read Chapter 17 of the APRS specification.

> > 1. Makes all IGate software that currently exists incompatible with
> > those packets as no IGate software currently considers
> non-third-party
> > packets as gated.
>
> That is why we are trying to define our goals for the future.
>
> > 2. Makes all client software that currently differentiates
> between RF
> > and gated packets incompatible with those packets.
>
> That is why we are trying to define our goals for the future.

But why make your future incompatible with the present?

> > 3. Introduces the possibility of path history loss due to AX.25
> > restrictions.
>
> Exactly the opposite. Makes it possible for PATH preservation for
> typical packets end-to-end through the APRS-IS

Once again, Bob, this is an inaccurate statement. The transformation necessary to return the packet to AX.25 compliancy dictates that paths will not be preserved because they will be shortened, losing valuable routing information.

> I disagree completely. If done as I proposed, the plan is
> fully backward
> compatible, AND also it has a mechanism for detection
> obsolete software
> and disconnecting it from the network automatically if we

> want so that the
> NETWORK can protect its processes from old obsolete
> software. That is
> the whole point. The current process has no such mechanism!

WHOA!!! Now you want the servers to monitor the data stream for compliance to a spec they have NO way of detecting! AND, you want the APRS-IS servers to be an enforcement agent against people using out-of-date software! Again, for the reasons stated in my previous email, your plan is NOT backward compatible. If it were, why would you need this "enforcement".

> The network must have a plan, and the plan must allow the network to
> assure compatibility or we have gained nothing and are
> forever stuck in
> the mess we have now. Sticking with what we have is not what we
> should be focused on when it has some particular constructs that tie
> our hands from doing what needs to be done.

But our hands are not tied. Since you like using clichés, how about "throw the baby out with the bath water". That is what the final part of your proposal amounts to. Until now, your recommendations had nothing to do with APRS-IS but everything to do with IGate functionality. You don't rewrite a specification because some software written doesn't implement it properly. You get the implementers to adhere to the spec. If a feature can be safely added to the spec, such as appending the MYCALL,TCPIP* or making all used VIA calls have asterisks, great. But I also believe you "don't fix what ain't broke". And that is what you are proposing above.

The APRS-IS is reasonably well defined:

1. No third-party packets passed as third-party packets on APRS-IS.
2. Distribute ALL packets with properly formed headers and a data byte if from a verified source.
3. Use TNC-2 or AEA header format as applicable.
4. Maintain a 9 character maximum for all FROM, TO, and VIA calls.

What could be more flexible?

IGates should currently be following the APRS specification:

1. Gate to APRS-IS the payloads of all third-party packets whose third-party headers do not contain TCPIP or TCPXX.
2. Gate to APRS-IS all other packets with a data byte (dupe checking here is encouraged).
3. Use the defined third-party packet for gating packets from APRS-IS to RF.

The addition to identify IGates that inject a packet into APRS-IS is:

4. Perform the header trim specified for third-party headers, then append MYCALL,TCPIP*.

This remains fully compatible with today's software yet provides the capability for IGate authors to enhance their products to support full path history.

> Its called progress. I agree that the .1 second savings are

Progress? Or one man's desire to see something done without regards to the consequences (which is the most common use of the word "progress")? I am sorry, Bob. But that is what your responses to my previous post reflect. Take a step back, take a deep breath, and re-read my previous post without the preconception that you will take issue with it. I laid forth some very solid reasons why the addition of using standard AX.25 packet formats could (and would) be problematic.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 10:41:58 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07619
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 10:41:54 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
Date: Sun, 26 May 2002 11:41:22 -0400
Content-Type: text/plain;
charset="US-ASCII"
References: <LYR18156-81300-2002.05.26-08.39.10--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-81300-2002.05.26-08.39.10--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-81340-2002.05.26-11.17.15--lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <02052611412203.24891@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'd rather not attempt to store the complete path history in every packet.

IP packets on the internet do not contain a history of all the switches they passed through. If they did they would grow too large. When a packet arrives you know the originator and the last router (the one you are connected to) and that's all. The internet seems to work just fine. IP packets do have a "Time To Live" integer which gets decremented after each hop. When it gets to zero it's discarded. This prevents infinite loops.

Instead of putting in an ID for every Igate a packet goes through why not just do this:

If packet does NOT have a Time To Live path element:

1. Keep the original USED path, discarding unused elements.
2. append the injecting Igates call sign
3. append the Time To Live counter as the LAST path element

If it DOES have TTL:

1. If TTL is zero discard packet ELSE decrement TTL and process.

Note the PATH of an Igated packet can be longer than an original packet by two elements.

Time to live path element:

First char: I

2nd char: R (came from RF)
I (came from validated Internet user)
X (came from a non-validated user)
S (Came from Igate Internal status)
Other codes possible...

3rd char: digit 0 to 9 is initial time to live in hops

4th char: -

5th char: Current Time To Live (TTL) value, decremented by each Igate

Examples: II4-4 IX3-3 IR5-5

Original pkt from TNC:

WA4DSY>N4ZZ*,WIDE2-1,WIDE:Hello

after it hits the first Igate WA4GT

WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-4:Hello

Second Igate output

WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-3:Hello

Third

WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-2:Hello

Forth

WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-1:Hello

fifth

WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-0:Hello

sixth

Discarded due to Time to Live being zero.

With TTL we can do things like set TTL to zero for Igate status messages and they will only be seen by the users on that particular Igate.

Number of Igate hops a packet took can be determined.

Infinite Loops impossible assuming the loop includes at least one Igate that knows about the TTL path element.

Anyways, I thought I'd share my thinking here for whatever it's worth.

--

Dale Heatherington

Web Page <http://www.wa4dsy.net>

Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 10:46:44 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA08268
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 10:46:38 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 11:46:24 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81317-2002.05.26-09.50.30--
bruninga@nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81341-2002.05.26-11.22.11--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=X-UNKNOWN
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205261136440.22645-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from QUOTED-PRINTABLE to 8bit by tapr.org id KAA08268

On Sun, 26 May 2002, AE5PL Lists wrote:

> > Impossible. Currently the header TRIM function is done at the DX end
>
> Bob, you completely misunderstood what I was saying. I was saying that
> the trim function should be done at the receiving end before adding the
> insertion identification. It would have NO affect (other than make
> things simpler) for the DX end.

I still cannot follow what you are trying to say... there are four or more "receiving ends". I don't think we should TRIM at the injection point, and if you don't add the ID till after the trim at the distant IS-2-RF point, then that is impossible because INJECTION ID must be done

at the first...

> But why make your future incompatible with the present?

It isn't. All of my proposal is backwards compatible.

> Once again, Bob, this is an inaccurate statement. The transformation
> necessary to return the packet to AX.25 compliancy dictates that paths
> will not be preserved because they will be shortened, losing valuable
> routing information.

Nope, not under my proposal. The original path data can be preserved end to end in most cases (That is up to an original 3 hop path) Beyond that, it preserves the SOURCE digi, and the number of hops, and then all after...

> WHOA!!! Now you want the servers to monitor the data stream for
> compliance to a spec they have NO way of detecting! AND, you want the
> APRS-IS servers to be an enforcement agent against people using
> out-of-date software! Again, for the reasons stated in my previous
> email, your plan is NOT backward compatible. If it were, why would you
> need this "enforcement".

It is a future option if obsolete software is causing problems. But the fact that it is backwards compatible and old software that does not cause problems will continue to work...

> > the mess we have now. Sticking with what we have is not what we
> > should be focused on when it has some particular constructs that tie
> > our hands from doing what needs to be done.

>

> But our hands are not tied. Since you like using clichés, how about
> "throw the baby out with the bath water". That is what the final part
> of your proposal amounts to. Until now, your recommendations had
> nothing to do with APRS-IS but everything to do with IGate
> functionality. You don't rewrite a specification because some software
> written doesn't implement it properly. You get the implementers to
> adhere to the spec. If a feature can be safely added to the spec, such
> as appending the MYCALL,TCPIP* or making all used VIA calls have
> asterisks, great. But I also believe you "don't fix what ain't broke".
> And that is what you are proposing above.

Then you still are not seeing the concept or missing the point.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 11:31:13 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA11482
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 11:31:09 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 12:30:50 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81340-2002.05.26-11.17.15--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81347-2002.05.26-12.06.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205261222230.13102-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 26 May 2002, Dale Heatherington wrote:

> I'd rather not attempt to store the complete
> path history in every packet.

I think one of the main things we want to preserve is the ability to watch the APRS-IS stream and see all raw packets in their entirety. Thus nothing gets dropped at the injection end. Only the Injecting IGate adds its MYGATE*, to indicate it is the entry pint into the APRS-IS and then it adds the "I" to indicate that is where it goes next.

> > IP packets on the internet do not contain a history
> of all the switches they passed through. If they
> did they would grow too large. When a packet arrives
> you know the originator and the last router (the one
> you are connected to) and that's all. The internet

> seems to work just fine.

But this is ham radio and the Internet is only one piece of the pie.
I don't care at all about what happens within the APRS-IS other than we
know where it went in, and where it comes out.

> Instead of putting in an ID for every Igate
> a packet goes through why not just do this:
>
> If packet does NOT have a Time To Live path element:
> 1. Keep the original USED path, discarding unused elements.
> 2. append the injecting Igate's call sign
> 3. append the Time To Live counter as the LAST path element

I don't want to lose the ability to observe ALL aprs packets worldwide in
their raw form...

> after it hits the first Igate WA4GT
> WA4DSY>N4ZZ*,WIDE2-1,WA4GT,IR4-4:Hello

I agree that I don't think any of us care about the inter-APRS-IS hops..
so is this level of added stuff needed?

> Anyways, I thought I'd share my thinking here
> for whatever it's worth.

I am not at all discarding your ideas, that may be great, and entirely
within the internals of the APRS-IS. Such input is very welcome. So
far, all my rantings are only concerned with how it gets in from RF and
how it goes back to RF. So I will keep a low profile with how you
guys decide to do the internal stuff.

So the only focus of my comments above are that I want to not throw
anything away going it so that we can always monitor the global APRS
system by just watching the APRS-IS..

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 12:40:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA15281

for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 12:40:13 -0500 (CDT)
Message-Id: <LYR11589-81354-2002.05.26-13.15.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Sun, 26 May 2002 10:35:45 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR19173-81347-2002.05.26-12.06.44--wa7nwp#yahoo.com@lists
.tapr.org>
References: <LYR11586-81340-2002.05.26-11.17.15--
bruninga#nadm.navy.mil@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20020526102942.009ff5a0@pioneer.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

> > Instead of putting in an ID for every Igate
> > a packet goes through

Having an Igate source packet on the path is a very good thing. It was
a kick watching the PCSAT page for packets Igated from my system.

Implementing it is trivial.

1. Well behaved TCP applications append "callsign,I" before uploading a packet.
2. Legacy applications and Igates wouldn't append the callsign. The server
they're
connecting to knows who they are - they gave a login callsign. So the server can
add the "Callsign,I*" if the application didn't put it on.

Bingo - all Igated packets have a source ID. It might not be 100% accurate in
the
case of multiple old Igates without the source callsign addition code - but I bet
it
wouldn't take long before most of them were updated.

73,

Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 13:02:14 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA16950
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 13:02:13 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Sun, 26 May 2002 13:01:53 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81358-2002.05.26-13.37.43--
lyris.aprsspec@tapr.org>
Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIEzJhXezhuYxNZRLyZxpOKYnhdRgADvNnQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048ECC@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA16950

It is obvious to me now that you do not have any comprehension of what I have said. This may be due to your lack of knowledge on how APRS-IS works or networks as a whole operate, I don't know. Whether by accident or by purpose, the APRS specification actually does a good job of defining how interaction with non-AX.25 networks should occur.

> -----Original Message-----

> From: Bob Bruninga [<mailto:bruninga@usna.edu>]

> Posted At: Sunday, May 26, 2002 10:47 AM

> Subject: [aprsspec] RE: Injecting IGate identification

>

> I still cannot follow what you are trying to say... there are four or
> more "receiving ends". I don't think we should TRIM at the injection

So what? Each RF->APRS-IS gating IGate trims the packet to the last used digi it sees and then appends its MYCALL,TCPIP*. The packet which reaches the core first will be the one that is passed back to the rest of the world and the others will be duped out. You have a complete path history visible on APRS-IS and you have identified the gating IGate. You have also made the transition back to RF extremely easy by allowing the APRS-IS->RF IGate to simply append its own callsign to the third-party packet header. For packets not ending in TCPIP or TCPXX, the APRS-IS->RF IGate would still need to trim the packet to the last used digi and then append TCPIP,MYCALL*, per the APRS specification on third-party headers.

> It isn't. All of my proposal is backwards compatible.

Per my previous posts, I showed that, in fact, they are not backwards compatible.

> Nope, not under my proposal. the original path data can be
> preserved end
> to end in most cases (That is up to an original 3 hop path)
> Beyond that,
> it preserves the SOURCE digi, and the number of hops, and then all
> after...

Bob, you just contradicted yourself. "in most cases", "preserves the source digi and the number of hops" These statements say that any other digis used in the path are lost in any cases where this path reduction is done.

> It is a future option if obsolete software is causing
> problems. But the
> fact that it is backwards compatible and old software that
> does not cause
> problems will continue to work...

Again, the injection to RF of APRS-IS packets as standard APRS packets is not backwards compatible, as shown. Look for other methods to encourage people to upgrade software. Forcing incompatibilities is not the way.

> Then you still are not seeing the concept or missing the point.

That may be, Bob. But apparently you have also missed every point I have made. Hopefully the IGate authors and APRS-IS server authors can

get together to create a working group to create a specification for IGates and a specification for APRS-IS. Those specifications must be based on the APRS specification to be of any use. Hopefully they will have the foresightedness and broad mindedness to carefully review the ramifications of specification alterations before incorporating them. Those specifications need to be created by those that have a complete understanding of APRS-IS and its interactions internally and to the RF world.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 13:26:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA17827
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 13:25:57 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
Date: Sun, 26 May 2002 14:25:34 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR11586-81340-2002.05.26-11.17.15--
bruninga#nadm.navy.mil@lists.tapr.org> <LYR18156-81354-2002.05.26-13.15.44--
dale#wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-81354-2002.05.26-13.15.44--dale#wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-81359-2002.05.26-14.01.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <02052614253404.24891@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Sunday 26 May 2002 01:35 pm, Bill Vodall - WA7NWP wrote:

```
> 1. Well behaved TCP applications append "callsign,I" before uploading a
> packet.
>
> 2. Legacy applications and Igates wouldn't append the callsign. The
> server they're connecting to knows who they are - they gave a login
> callsign. So the server can add the "Callsign,I*" if the application
> didn't put it on.
```

Yes, I think that's a good idea. So my revised suggestion is:

If incoming packet has no I or I* on the end of the path,
remove unused path elements and then append users call sign
and the Time-to-Live path element. eg: II4-4

If incoming packet has I or I* on the end of path
change the I or I* to the proposed Time-To-Live path element
and set TTL to default.

If incoming packet has Time-to-Live then check for zero
and if not zero decrement it.

Proposed TTL codes: IIIn-n = Internet source IRn-n = RF Source

Examples assuming logged on user is W4XYZ and Igate is W4ABC :

User application did nothing to path.

INPUT: WA4DSY>APRS,WIDE*:Hello

Output: WA4DSY>APRS,WIDE*,W4XYZ,II4-4:Hello

User application appended his call and "I" to the path

Input: WA4DSY>APRS,WIDE*,W4XYZ,I:Hello

Output WA4DSY>APRS,WIDE*,W4XYZ,II4-3:Hello

Note we pre-decrement the TTL above to account
for the previous hop.

User applicaton supports TTL

Input: WA4DSY>APRS,WIDE*,W4XYZ,II4-4:Hello

Output:WA4DSY>APRS,WIDE*,W4XYZ,II4-3:Hello

If packet had come from the TNC on W4ABC Igate:

INPUT: WA4DSY>APRS,WIDE*:Hello

Output: WA4DSY>APRS,WIDE*,W4ABC,IR4-4:Hello

For this to work correctly all existing Inet to Inet APRS

servers (hubs) must not append anything to the path or they will push the TTL field back from the end. Anyone do this?

>
> Bingo - all Igated packets have a source ID. It might not be 100%
> accurate in the case of multiple old Igates without the source call sign
> addition code - but I bet it wouldn't take long before most of them were
> updated.

--
Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 13:28:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA17983
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 13:28:21 -0500 (CDT)
Message-ID: <LYR11589-81360-2002.05.26-14.03.47--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-EM-APIVersion: 2, 0, 0, 7
X-Priority: 3 (Normal)
From: "" <mdrdg@ourtownusa.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS Position Error
Date: Sun, 26 May 2002 13:27:56 -0500
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "" <mdrdg@ourtownusa.net>
X-Message-Id: <53788742a14c4b19b334ee84e450826f.mdrdg@ourtownusa.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA17983

>From another location I see my Wide Digi at times beacons but the position and text elements are not even what was stored. This is a Kantronics KPC3+. Could this be caused by collisions at the receiving stations end. I have 1t thru 3 loaded with the same position text and 4 is not being used but it is set to GPS. I took that out to see if it does it again.

Anyone experience this.

Bob KA0MR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 16:17:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA25308
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 16:17:30 -0500 (CDT)
Message-ID: <LYR11589-81374-2002.05.26-16.53.05--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Draft APRS IS Spec
Date: Sun, 26 May 2002 23:18:00 +0200
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <006701c204fa\$d0953650\$664ba8c0@fam2k>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA25308

I have to things to be added to the draft spec:

1) The new draft spec for APRS IS specify that "All packets are injected in their RAW form". It should be added to this that the DATA portion should fully support 8-bit characters.

2) No conversion of any packets should be allowed which is passed back to the APRS IS. I'm in particular thinking of Mic-E conversion that are feed back with timestamps of the converting system. The client should be fully responsible for any necessary conversion.

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 18:57:52 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA02462
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 18:57:45 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 19:57:26 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
In-Reply-To: <LYR11586-81358-2002.05.26-13.37.43--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81380-2002.05.26-19.33.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0205261922480.15626-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sun, 26 May 2002, AE5PL Lists wrote:

> It is obvious to me now that you do not have any comprehension of what I

> have said.

I agree that it is clear we are not communicating well... And that you seem to have some misunderstandings of how the APRS-IS works..

> So what? Each RF->APRS-IS gating IGate trims the packet to the last
> used digi it sees and then appends its MYCALL,TCPIP*.

Sorry, that is just not right. TELNET to any of the HUBS or to the central SERVERS and you will not see TCPIP added to ANY RF packets other than IS<->IS only ones that are originated by the IGATES themselves. All RAW packets from RF are distributed as received... This is the way it is. I think this is what you are missing...

Now, in APRS-IS 1.1, we are improving that by asking all IGATES to append ",INGATE*,I" onto the end of all such inbound packets so that we can see where they are coming from. Still though, there is no truncation nor dropping of ANY path data. We want to continue to use the APRS-IS to view the world of APRS in its raw form. We never want to lose path data on packets INJECTED into the APRS-IS.

> Per my previous posts, I showed that, in fact, they are not backwards
> compatible.

No you have not. You threw out a lot of arguments, but they either misunderstood my proposal, or were based on incorrect assumptions about how the current APRS-IS system works. Unless I missed something, I don't recall any valid point that you have made that causes my proposal to not be backwards compatible. Remember, my proposal is a phased approach. I agree completely that we cannot do them out of sequence nor can you do version 1.2 without having 1.1 in place first. But if we do it right, then it is backwards compatible. What I mean by that is that it WON'T BREAK ANYTHING. I am not claiming that it will continue to support software written 5 years ago that has not kept up with the current APRS-IS objectives..

> > to end in most cases (That is up to an original 3 hop path)
> > Beyond that, it preserves the SOURCE digi, and the number of hops, and
> > then all after...

>

> Bob, you just contradicted yourself. "in most cases", "preserves the
> source digi and the number of hops" These statements say that any other
> digis used in the path are lost in any cases where this path reduction
> is done.

No, there is no contradiction. I am talking apples and you are arguing oranges... You still appear to not understand that both the current APRS-IS and what I propose both DO preserve ALL path data INBOUND. I hope

we all agree that we always want the APRS-IS to preserve all original packets with NO loss of path data to all APRS-IS online viewers. Do we agree here?

Good.

Then the only issue of path truncation ONLY occurs when a packet is prepared for OUTGATE transmission on RF. Currently the OUTGATE then makes sure that its call,TCPIP are in the path and THAT is when it drops all unused path data. The way I read what you keep saying is that you think this process occurs when the packet enters the APRS-IS. This is just not correct. It occurs only when the packet is prepared for the OUTGATE.

> Hopefully the IGate authors and APRS-IS server authors can
> get together to create a working group to create a specification for
> IGates and a specification for APRS-IS. Those specifications must be
> based on the APRS specification to be of any use. Hopefully they will
> have the foresightedness and broad mindedness to carefully review the
> ramifications of specification alterations before incorporating them.
> Those specifications need to be created by those that have a complete
> understanding of APRS-IS and its interactions internally and to the RF
> world.

Yep, we certainly agree here....

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 19:09:27 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA02792
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 19:09:22 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 20:09:01 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Draft APRS IS Spec
In-Reply-To: <LYR11586-81374-2002.05.26-16.53.05--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81382-2002.05.26-19.44.57--

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205262008340.15626-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Yes! I will add these on Tuesday when I can get access back to the site... thanks
Bob

On Sun, 26 May 2002, Roger Bille wrote:

> I have to things to be added to the draft spec:
>
> 1) The new draft spec for APRS IS specify that "All packets are injected in their RAW form". It should be added to this that the DATA portion should fully support 8-bit characters.
>
> 2) No conversion of any packets should be allowed which is passed back to the APRS IS. I'm in particular thinking of Mic-E conversion that are feed back with timestamps of the converting system. The client should be fully responsible for any necessary conversion.
>
> 73 de sm5nrk/Roger
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun May 26 19:27:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA03321
for <lyris.aprsspec@tapr.org>; Sun, 26 May 2002 19:27:30 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sun, 26 May 2002 20:26:28 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Injecting IGate identification
Message-ID: <LYR11589-81383-2002.05.26-20.02.13--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205262024330.15626-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Dale,

I think I can maybe agree with most of your post (below) except that I still want to preserve ALL path data on the INBOUND APRS-IS process just like we have now. We want to be able to continue to use the APRS-IS as a means to view ALL raw packets worldwide. Bandwidth within the APRS-IS is not an issue.

There is no need to throw out even unused path data on the 99.99% of all APRS-IS packets when only 00.01% of those packets ever go back to RF and that is the only time that the length of the header is of any concern..

Lets dont drop ANYTHING unless it is one of the 00.01% of APRS-IS packets that has to go back to RF. Then lets first try just dropping unused path fields (like we do now). If that is still too big, then lets use my intelligent truncation model which always preserves all critical entry point and hop counts...

Bob

On Sun, 26
May 2002, Dale Heatherington wrote:

```
> On Sunday 26 May 2002 01:35 pm, Bill Vodall - WA7NWP wrote:
> > 1. Well behaved TCP applications append "callsign,I" before uploading a
> > packet.
> >
> > 2. Legacy applications and Igates wouldn't append the callsign. The
> > server they're connecting to knows who they are - they gave a login
> > callsign. So the server can add the "Callsign,I*" if the application
> > didn't put it on.
>
> Yes, I think that's a good idea. So my revised suggestion is:
>
> If incoming packet has no I or I* on the end of the path,
> remove unused path elements and then append users call sign
> and the Time-to-Live path element. eg: II4-4
>
> If incoming packet has I or I* on the end of path
> change the I or I* to the proposed Time-To-Live path element
> and set TTL to default.
>
> If incoming packet has Time-to-Live then check for zero
> and if not zero decrement it.
>
> Proposed TTL codes: IIn-n = Internet source IRn-n = RF Source
>
> Examples assuming logged on user is W4XYZ and Igate is W4ABC :
>
> User application did nothing to path.
> INPUT: WA4DSY>APRS,WIDE*:Hello
> Output: WA4DSY>APRS,WIDE*,W4XYZ,II4-4:Hello
>
> User application appended his call and "I" to the path
> Input: WA4DSY>APRS,WIDE*,W4XYZ,I:Hello
> Output WA4DSY>APRS,WIDE*,W4XYZ,II4-3:Hello
> Note we pre-decrement the TTL above to account
> for the previous hop.
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sun May 26 22:34:27 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id WAA12433
for <lyris.aprsspec@tappr.org>; Sun, 26 May 2002 22:34:19 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: Neil Johnson <njohnsn@iowatelecom.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Injecting IGate identification
Date: Fri, 24 May 2002 15:34:27 -0500
References: <LYR18156-81300-2002.05.26-08.39.10--dale#wa4dsy.net@lists.tappr.org>
<LYR25610-81340-2002.05.26-11.17.15--njohnsn#iowatelecom.net@lists.tappr.org>
In-Reply-To: <LYR25610-81340-2002.05.26-11.17.15--
njohnsn#iowatelecom.net@lists.tappr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-ID: <LYR11589-81403-2002.05.26-23.09.50--
lyris.aprsspec#tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Neil Johnson <njohnsn@iowatelecom.net>
X-Message-Id: <auto-000065609333@cgp2.cgp.netins.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sunday 26 May 2002 10:41 am, Dale Heatherington wrote:

> I'd rather not attempt to store the complete
> path history in every packet.
>
> IP packets on the internet do not contain a history
> of all the switches they passed through. If they
> did they would grow too large. When a packet arrives
> you know the originator and the last router (the one
> you are connected to) and that's all. The internet
> seems to work just fine. IP packets do have a
> "Time To Live" integer which gets decremented after
> each hop. When it gets to zero it's discarded. This
> prevents infinite loops.

It would be nice to have some sort "TTL Exceeded message" sent back to the source (if possible) when the TTL hits zero.

This would allow one to use a "traceroute" like command to determine the path a packet might take.

(Traceroute identifies a path taken by an IP packet by sending a packet to the destination, first with a TTL of 1 , then with TTL of 2, then a TTL of 3, etc. It then can figure out the path by looking at the source of returning "TTL exceeded" packets").

Ahhh, something to keep in mind for APRS Spec 2.0 I guess.

--

Neil Johnson, N0SFH
<http://www.iowatelecom.net/~njohnsn>
<http://www.njohnsn.com/>
PGP key available on request.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 27 03:06:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA28789
for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 03:06:44 -0500 (CDT)
Message-ID: <LYR11589-81434-2002.05.27-03.42.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 27 May 2002 08:57:59 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Draft APRS IS Spec
References: <LYR11586-81374-2002.05.26-16.53.05--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR26815-81382-2002.05.26-19.44.57--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-81382-2002.05.26-19.44.57--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <vjJIG6AHce88EwPy@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>On Sun, 26 May 2002, Roger Bille wrote:

>
>> I have to things to be added to the draft spec:
>>
>> 1) The new draft spec for APRS IS specify that "All packets are injected in
>their RAW form". It should be added to this that the DATA portion should fully
>support 8-bit characters.

In message <LYR26815-81382-2002.05.26-19.44.57--roger#peaksys.co.uk@list
s.tappr.org>, Bob Bruninga <bruninga@usna.edu> writes
>Yes! I will add these on Tuesday when I can get access back to the
>site... thanks
>Bob

What this part of the spec currently says is not what it really means.

1. It does not really mean "raw form".

2. If I'm reading the correct document (I'm getting slightly confused
about that!) it also doesn't really mean "the packets may be in any
recognizable TNC header format".

In fact what is acceptable is only two of the three major decoded frame
header formats that are in use in TNCs, and even then only in their most
simplistic form - all frame type information removed.

--
Roger Barker roger@peaksys.co.uk
Boston, UK

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 27 05:51:26 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA14584
for <lyris.aprsspec@tappr.org>; Mon, 27 May 2002 05:51:26 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: Injecting IGate identification
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Mon, 27 May 2002 05:51:09 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81440-2002.05.27-06.26.59--
lyris.aprsspec#tappr.org@lists.tappr.org>

Thread-Topic: [aprsspec] RE: Injecting IGate identification
Thread-Index: AcIFFV/pd4edj0CeTYKt1eAePmPXxwAVcK9A
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048ED3@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id FAA14584

Due to the adversarial nature that this thread has taken, I have decided not to pursue it any further. Suffice it to say that I have presented substantiated reasons why Bob's proposals, as they stand today, introduce incompatibilities with the APRS specification and with current IGate software.

For those of you who are IGate authors, I will be happy to elaborate off-SIG if you wish. I don't feel this thread is going anywhere with the friction apparent in the posts.

I hope that the IGate authors and APRS-IS server authors get together and address creating an IGate specification and APRS-IS specification. I don't believe anything is to be gained by arbitrarily creating such documents without their guidance. As an APRS-IS server author, I would be willing to compile such documents in conjunction with a working group made up of those individuals, similar to what Ian did with the APRS specification.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon May 27 13:51:51 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA07771
for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 13:51:50 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] max path length on APRSIS
Date: Mon, 27 May 2002 14:51:29 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-81499-2002.05.27-14.27.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <02052714512907.24891@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Quick question. Is it safe to append two additional path elements
to an Internet aprs packet that has 8 digis already
in the path? Total length of path would be 11 (including dest addr).
Will any existing client or server programs will blow up?

I need to know what to do when I append the injecting CALL
and Time-To-Live path items to the original path. Bob does not
want anything removed from the original path.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 27 14:03:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA08487

for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 14:03:21 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 27 May 2002 15:03:00 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: aprsspec@lists.tapr.org
Subject: [aprsspec] SSID-N routing
Message-ID: <LYR11589-81501-2002.05.27-14.38.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205271450130.27586-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Let me clarify about SSID-N routing:

- 1) In my opinion, the directional digipeating is a dead concept
- 2) This frees up 2 of the four SSID bits for other use.

Here is how I think SSID-Routing should be implemented. Remember the SSID here is on the AX.25 TOCALL and that no digi field is needed or used. That is where the savings comes in.

- a) SSID-N is identical to WIDEn-N except it saves 7 bytes
- b) All digis digipeat the packet after decrementing the TOCALL SSID.
- c) The 3rd and 4th bits are PRIORITY bits. Thus

- 00xx are just like WIDEn-N hops 0 through 3 but are routine packets
- 01xx are just like WIDEn-N hops 0 through 3 but are priority packets
- 10xx are just like Widen-N hops 0 through 3 but are urgent packets
- 11xx are reserved for future use.

d) IN ADDITION, the first digi to hear a SSID-N packet checks the digi fields. If empty, it inserts its MYDIGI call to mark the source of entry of the packet into the APRS RF system.

e) Normal DUP filtering is also applied.

You ask what good are the priority bits? It depends. But if our network is ever smart enough to make decisions under stress, the routine packets with large hop counts might be the first ones to be dropped.

You ask what about hops above 4? Simple, use WIDE4-4 or whatever. This SSID-N idea is only for high efficiency locally where the majority of packets are 3 hops or less.. All of the other APRS digipeater options remain.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 27 16:09:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15195
for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 16:09:05 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 27 May 2002 17:08:50 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: max path length on APRSIS
In-Reply-To: <LYR11586-81499-2002.05.27-14.27.26--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-81513-2002.05.27-16.44.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205271655290.10152-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 27 May 2002, Dale Heatherington wrote:

> Quick question. Is it safe to append two additional path elements

> to an Internet aprs packet that has 8 digis already
> in the path? Total length of path would be 11 (including dest addr).
> Will any existing client or server programs will blow up?
>
> I need to know what to do when I append the injecting CALL
> and Time-To-Live path items to the original path. Bob does not
> want anything removed from the original path.

I think going from RF=>IS into APRS-IS it should not be a problem. We want to see all packets in their raw form (like we have now) and we want INgate identification. Thus size should not be a limitation.

But let me clarify some things I have said to make sure I am not confusing others. My perspective has been describing the APRS-IS from the perspective of what goes from RF=>IS into an INgate and what can happen at the IS=>RF at an OUTgate. I think Dale and Steve are looking also at what goes on inbetween (which has not been my focus)...

One thing I would change about Dale's idea is that it should not be a time-to-live, but a time-to-die. His time-to-live starts with N and decrements. This assumes apriori knowledge about what is a reasonable N to start with and is not backwards compatible with existing "INgate*,I".

Whereas by using "INgate*,I" and then Incrementing I on every "internal-to-the-IS layer thorough the servers, and hubs, and regional distribution points, then each such point is better aware of its distance down the tree and so is better in a position to KILL a packet with a TIME-TO-DIE counter (I#) that has gotten too BIG.

In otherwords, INgates still inject with "INgate*,I" but then the IS processes Increment I each time an internal distribution occurs. It then becomes "INgate*,I1" then INgate*,I2", "INGATE*,I3" and so on.

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 27 20:24:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA26954
for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 20:24:31 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: max path length on APRSIS
Date: Mon, 27 May 2002 21:23:53 -0400
Content-Type: text/plain;
charset="US-ASCII"
References: <LYR18156-81513-2002.05.27-16.44.39--dale#wa4dsy.net@lists.tappr.org>
In-Reply-To: <LYR18156-81513-2002.05.27-16.44.39--dale#wa4dsy.net@lists.tappr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-81543-2002.05.27-20.59.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <02052721235309.24891@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Monday 27 May 2002 05:08 pm, Bob Bruninga wrote:

>†One thing I would change about Dale's idea is that it should not be a
>†time-to-live, but a time-to-die. †His time-to-live starts with N and
>†decrements. †This assumes apriori knowledge about what is a reasonable N
>†to start with and is not backwards compatible with existing "INGate*,I".
>
>†Whereas by using "INGate*,I" and then Incrementing I on every
>†"internal-to-the-IS layer thorough the servers, and hubs, and regional
>†distribution points, then each such point is better aware of its distance
>†down the tree and so is better in a position to KILL a packet with a
>†TIME-TO-DIE counter (I#) that has gotten too BIG.
>
>†In otherwords, INGates still inject with "INGate*,I" but then the IS
>†processes Increment I each time an internal distribution occurs. †It then
>†becomes "INGate*,I1" then INGate*,I2", "INGATE*,I3" and so on.
>
>†de WB4APR@amsat.org, Bob

Bob, since the primary reason for time-to-live (ttl) is to stop infinite loops, †your incrementing I# idea will work. But, I wanted an additional piece of info in there - the source of the packet: TNC, Internet client, another aprs Server or Hub, or internal to the Internet server.

So far I have defined the following for Time-to-Live:

Assuming ttl is 5, MyCall is WA4DSY, Logged on user is WA4ABC

and the path does NOT already have an I or IxN-N (old software).

WA4ABC,IC5-5 † from validated internet Client
WA4DSY,IR5-5 † from local TNC (RF)
WA4DSY,IS5-5 † from data I get from connecting to a Hub or Server
WA4DSY,IU5-5 † from UDP port
WA4DSY,II1-1 † from Internal source (status msg etc)

The only questionable one is the Hub source. †Perhaps it should have the first N characters of its domain name instead of MyCall (suggested by Steve).

If a packet comes in from anywhere except the TNC and already has a MYCALL,I on the end of the path I just change the I to Ix5-5 where x indicates the source.

If the packet has an TTL path element on the end I check for ZERO and decrement it if it's not. †Discard if it was zero.

The path will be either zero or 2 elements longer than the original.

So, there it is and I've coded almost all of it and it basically works. I could change to your I# idea but I'd lose the source info. † Is it of value or not?
Also, why is I# more compatible than IxN-N ?

Oh, one more thought. By using time-to-live count DOWN the originator controls how far his packets can go. Most of the time he sets the value high enough to pass through more than the maximum hubs and/or servers. However, if my server has some status messages intended for local users that the whole world does not want such as (but not limited to) the ">JAVA" status messages, he can set those with a TTL of 1 so they don't go beyond the logged on users.

If I were to put this up on IS at wa4dsy.net do you all think anything would blow up????

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 27 22:57:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA03341
for <lyris.aprsspec@tapr.org>; Mon, 27 May 2002 22:57:50 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 27 May 2002 23:57:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
<aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] SSID-N routing
In-Reply-To: <3.0.3.32.20020527173309.007d7920@pop3.norton.antivirus>
Message-ID: <LYR11589-81558-2002.05.27-23.33.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0205272353510.19851-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 27 May 2002, John Kraus wrote:

> Bob,
>
> Could you give an example of two equivalent packets one using the current
> scheme and one using the SSID-N mode you are discussing. I help maintain a
> digi_ned digi and I want to understand this so that it can be implemented
> if we decide to do this.

WU2Z>APRS,WIDE3-3...
WU2Z>APRS-3:...>

Should be equivalent. The second one uses SSID-N routing.

> On another issue how does this SSID-N directional routing differ in results
> from the AUTO E-W-N-S
> preemptive paths. I think that having a few simple generic keyword
> digicalls that it is understood will be preempt to use direct paths rather
> than generic ones is more likely to be understood and adopted.

Forget directive routing. It was a good idea a long time ago (back in 1994 when I first came up with it, but it is of no value now)...

> If a station can use a keyword and expect the digi owner to create and use
> the "Best" path for the local environment. What is the downside? I
> remember the drive back in the days of simple wides to always use a direct
> path whenever possible. This keyword method would allow direct paths to
> be used without the mobile needing to know anything about the local
> network. It might also be easier to implement in some systems.

Seems like a good idea to me...

but will be a poitin of contention getting everyone to agree what "best" means under any given situation..>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 28 10:51:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA14746
for <lyris.aprsspec@tapr.org>; Tue, 28 May 2002 10:51:27 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] APRS-IS and IGate Specifications
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Tue, 28 May 2002 10:51:08 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81640-2002.05.28-11.27.01-->

lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: APRS-IS and IGate Specifications
Thread-Index: AcIGX3u5n73qnnIDEdaQ8gBAM9KoGQ==
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CBB0@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA14746

If attempts to unilaterally create specifications with preset agendas and add "features" to the APRS-IS data stream continue, then I hope the people that do this realize that instead of helping APRS-IS, they are most likely going to create a bigger mess. As it stands today, APRS-IS is, for the most part, working and working well. I would think that before rushing headlong into "fixes" and "enhancements", we, the amateur radio community, would like to first have a detailed specification of what exists today and what is supposed to exist (based on the APRS specification) today. IMO, this APRS-IS specification should originate from the authors of APRS servers and authors of IGates as they should have the best knowledge of how their software is designed and how the current APRS-IS is architected. I would hope that they also have a firm grasp of the APRS specification.

Once this is done, the working group of authors described above should look at enhancements on an individual basis, reviewing compatibilities with the APRS-IS specification, compatibilities with the APRS specification, restrictions, benefits, etc. Also, the working group could take on the task of defining a next-generation APRS-IS if deemed necessary. But if the task of defining a next-generation APRS-IS is done before a valid current APRS-IS specification is finished, most of the knowledge gained from the current APRS-IS will be lost thus making a next-generation APRS-IS very iffy.

I repeat my offer to assemble a current APRS-IS specification in a similar manner to what Ian did with the APRS specification. To do this, however, will require an organized effort on the parts of all of the APRS server authors and IGate authors.

We have a working system today. I would like it to continue to improve in reliability and features, but this takes a coordinated effort. I

don't believe it can be done by people unilaterally implementing their own agendas.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 28 11:56:12 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17852
for <lyris.aprsspec@tapr.org>; Tue, 28 May 2002 11:56:07 -0500 (CDT)
Message-ID: <LYR11589-81645-2002.05.28-12.31.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR25861-81640-2002.05.28-11.27.01--
roger.bille#telia.com@lists.tapr.org>
Subject: [aprsspec] Re: APRS-IS and IGate Specifications
Date: Tue, 28 May 2002 18:56:44 +0200
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <003001c20668\$a5c37210\$664ba8c0@fam2k>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA17852

Pete,

I think it is a good idea to have the current authors of server/igate to document the existing APRS-IS specification. However when going to next step of defining the future to have a working group of only software developer is too narrow. It is important to have a broader group with representants for the different groups:

- APRS IS Server developers
- Igate developers
- Digipeater sysop
- Users
- International representatives

This is also true for the the normal APRS Spec working group. One important thing is that the working group should represent the users/developers etc and not everybody can be a members.

All,

I suggest we accept Pete's offer to work with the developers to document the current APRS IS spec and agree on a deadline when this should be finished (Pete should let us know how long time he need). In parallel we should agree who should be represented in the APRS IS working group for the new specification and give that team the objectives. These include what the current problems are etc.

The following question will be if we should have 1 or 2 working groups, one for APRS IS spec and one for APRS Spec. But the members in the groups should be selected using same crateria as above.

73 de sm5nrk/Roger

----- Original Message -----

From: "AE5PL Lists" <HamLists@ametx.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Tuesday, May 28, 2002 5:51 PM
Subject: [aprsspec] APRS-IS and IGate Specifications

> If attempts to unilaterally create specifications with preset agendas
> and add "features" to the APRS-IS data stream continue, then I hope the
> people that do this realize that instead of helping APRS-IS, they are
> most likely going to create a bigger mess. As it stands today, APRS-IS
> is, for the most part, working and working well. I would think that
> before rushing headlong into "fixes" and "enhancements", we, the amateur
> radio community, would like to first have a detailed specification of
> what exists today and what is supposed to exist (based on the APRS
> specification) today. IMO, this APRS-IS specification should originate
> from the authors of APRS servers and authors of IGates as they should
> have the best knowledge of how their software is designed and how the

> current APRS-IS is architected. I would hope that they also have a firm
> grasp of the APRS specification.
>
> Once this is done, the working group of authors described above should
> look at enhancements on an individual basis, reviewing compatibilities
> with the APRS-IS specification, compatibilities with the APRS
> specification, restrictions, benefits, etc. Also, the working group
> could take on the task of defining a next-generation APRS-IS if deemed
> necessary. But if the task of defining a next-generation APRS-IS is
> done before a valid current APRS-IS specification is finished, most of
> the knowledge gained from the current APRS-IS will be lost thus making a
> next-generation APRS-IS very iffy.
>
> I repeat my offer to assemble a current APRS-IS specification in a
> similar manner to what Ian did with the APRS specification. To do this,
> however, will require an organized effort on the parts of all of the
> APRS server authors and IGate authors.
>
> We have a working system today. I would like it to continue to improve
> in reliability and features, but this takes a coordinated effort. I
> don't believe it can be done by people unilaterally implementing their
> own agendas.
>
> 73,
>
> Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>
>
> ---
> You are currently subscribed to aprsspec as: roger.bille@telia.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org
> Questions regarding the SIG go to the SIG administrator: wallou@taprr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@taprr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: wallou@taprr.org

From bounce-aprsspec-11589@lists.taprr.org Tue May 28 13:28:32 2002
Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.13) with SMTP id NAA22391
for <lyris.aprsspec@taprr.org>; Tue, 28 May 2002 13:28:24 -0500 (CDT)
content-class: urn:content-classes:message

Subject: [aprsspec] Re: APRS-IS and IGate Specifications
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Tue, 28 May 2002 13:28:17 -0500
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Message-ID: <LYR11589-81662-2002.05.28-14.04.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] Re: APRS-IS and IGate Specifications
Thread-Index: AcIGaKJG4F+8qle1RQCPd2pAS+VX8gACrbDw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048EDF@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA22391

Good points, Roger.

> -----Original Message-----

> From: Roger Bille [mailto:roger.bille@telia.com]

> Posted At: Tuesday, May 28, 2002 11:57 AM

> Subject: [aprsspec] Re: APRS-IS and IGate Specifications

>

> group. One important thing is that the working group should

> represent the users/developers etc and not everybody can be a members.

This is an important point. The working group needs to be kept to a reasonable size.

> when this should be finished (Pete should let us know how

> long time he need). In parallel we should agree who should be

This will depend on the creation and participation of the initial APRS-IS working group. I can create a rough draft rather quickly, but I would consider it of no value unless the other developers review, modify, and otherwise revise it to more accurately reflect a true specification.

> The following question will be if we should have 1 or 2

> working groups, one for APRS IS spec and one for APRS Spec.

> But the members in the groups should be selected using same
> criteria as above.

IMO, there should be two groups. The APRS WG consists primarily of people that are focused on the tactical aspects of APRS that most affects client software and hardware. The APRS-IS WG should consist of people who are more focused on the internetworking and networking aspects that the Internet medium facilitates which most affects IGates and APRS servers. Both working groups should, of course, work closely together to ensure there is no divergence in either specification. Basically, the difference between the two groups would be in how the various expertise is weighted.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 28 14:10:15 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA25032
for <lyris.aprsspec@tapr.org>; Tue, 28 May 2002 14:10:09 -0500 (CDT)
Message-ID: <LYR11589-81673-2002.05.28-14.45.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR25861-81662-2002.05.28-14.04.06--
roger.bille@telia.com@lists.tapr.org>
Subject: [aprsspec] Re: APRS-IS and IGate Specifications
Date: Tue, 28 May 2002 21:10:43 +0200
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <024e01c2067b\$5df58230\$664ba8c0@fam2k>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id OAA25032

Pete,

> IMO, there should be two groups. The APRS WG consists primarily of
> people that are focused on the tactical aspects of APRS that most
> affects client software and hardware. The APRS-IS WG should consist of
> people who are more focused on the internetworking and networking
> aspects that the Internet medium facilitates which most affects IGates
> and APRS servers. Both working groups should, of course, work closely
> together to ensure there is no divergence in either specification.
> Basically, the difference between the two groups would be in how the
> various expertise is weighted.

Didn't think about that, I now fully agree that it should be 2 groups.

Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 28 15:54:38 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA02202
for <lyris.aprsspec@tapr.org>; Tue, 28 May 2002 15:54:37 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] aprsd215b1 up on wa4dsy.net
Date: Tue, 28 May 2002 16:54:25 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-81679-2002.05.28-16.30.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <0205281654250C.24891@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Aprsd server wa4dsy.net is now running a experimental version of aprsd215b1. The biggest change is the addition of a Time_To_Live counter at the end of the AX25 path and preceeding it is an identifier that shows where the packet came from. This is explained in more detail below.

This version honors RFONLY and NOGATE by dropping them.

EH? and cmd: packets are rejected.

Another change removes the server status messages from ports 1313, 1314 and the outgoing Hub connections. When users first connect and logon they alone will see the usual status messages. The messages will not be broadcast to other 1313 and 1314 users. Other ports are unchanged.

There are a boatload of other little bug fixes but these are the biggest and most visible. I don't consider this stable enough to release as a beta yet. I invite you to logon and observe the data stream. Let me know if you notice anything screwed up or have a suggestion.

Dale
WA4DSY

Packet Time-To-Live and source path insertions

To aid in determining where packets were inserted into the APRS Internet stream aprsd 2.1.5 appends an identifier path element at the end of the existing path if one is not already there. The identifier string contents depend on the source of the packet as follows:

Source	Identifier
Validated user	Users Login Call sign
APRS Hub	First 9 characters of it's domain name up to the 1st "."
TNC	The MYCALL string of the aprsd server

Internal MYCALL

After the identifier string is appended aprsd appends a Time-To-Live counter in the format:

I code digit - digit

The first character is always "I". The second character is a code that indicates how to interpret the preceeding identifier path element. The possible codes are C, R, S, U, I. Next is a digit indicating the initial value of Time-To-Live (TTL).

Next is a "-". The last digit is the TTL counter. It is decremented each time it passes through an APRS Internet server that supports TTL.

Code	Source
C	Validated Client (User)
R	RF packet from local TNC
S	Server or Hub
U	UDP port on aprsd server
I	Internal status message from aprsd server

Here are some examples.

Assuming ttl is 5, MyCall is WA4DSY, Logged on user is WA4ABC, we are connected to and receiving data from first.aprs.net and the path does NOT already have an I or IxN-N (old software).

WA4ABC,IC5-5 † from validated internet Client
WA4DSY,IR5-5 † from local TNC (RF)
first,IS5-5 † from data I get from connecting to Hub first.aprs.net
WA4DSY,IU5-5 † from UDP port
WA4DSY,II1-1 † from Internal source (status msg etc)

If the packet has an TTL path element on the end aprsd 2.1.5 checks for ZERO (eg: IS5-0) and decrements it if it's not. †If the TTL value was zero upon arrival the packet is discarded.

If a packet comes in from anywhere except the TNC and already has a MYCALL,I on the end of the path aprsd 2.1.5 changes the I to Ix5-5 where x indicates the source.

The path will be either zero or 2 elements longer than the original.

The default initial Time-To-Live value is 5 but can
be changed by adding "TimeToLive N" to the aprsd.conf file.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Jun 11 11:33:09 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26854
for <lyris.aprsspec@tappr.org>; Tue, 11 Jun 2002 11:33:08 -0500 (CDT)
Date: Tue, 11 Jun 2002 12:31:54 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: Robert Bruninga <bruninga@usna.edu>, <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Object/Position equivalence.
In-Reply-To: <001001c20fd8\$3d94a6e0\$037ba8c0@dslverizon.net>
Message-ID: <LYR11589-84390-2002.06.11-12.09.24--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206102141300.9452-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Authors,

It has come to my attention that the equivalence of objects and stations can be misinterpreted in the spec as written. APRS was designed with no distinction between "stations" and "objects". The "object" format is nothing more than an additional way of reporting the position of something with a given "label". It is only the exact "label" of the thing that is unique..

If a TNC is reporting the position, then usually the MYCALL of the TNC is given the callsign which will be used as the "label" for example ABCXYZ. If however ABCXYZ is not the call of the TNC, yet that station wants to report the position of ABCXYZ, then the OBJECT format was designed for this purpose which can allow any "named" thing to be reported without having to change the MYCALL. But on receipt, the thing named "ABCXYZ" is equivalent no matter what format reported it. The only slight difference is that for accountability purposes, we need to keep track of who is responsible for, and uploaded, the object.

Now the significance of the equivalence of all reports of "ABCXYZ" arises because the basis of APRS is as a tactical real-time display system, and is supposed to let the operators maintain the "global" tactical display

properly, (Global here being the view that everyone has of the event)... So the importance of the equivalence of all reports of "ABCXYZ" no matter what format is used can be illustrated by the following two examples:

> Example 1, When the lead tracker running the callsign of LEAD
> dies, then it will remain stuck on everyone's map. But a new object
> labeled LEAD can then be manually moved about the course to keep
> everyone's maps updated. The new object named LEAD should completely
> replace the previous LEAD. They are identical. You should not
> maintain objects and stations separately with the same name.
> In this case one LEAD would remain stuck where the LEAD TNC died,
> and the other would move, but viewers of the map will see two
> identical objects, one in the right place and one in the wrong place.
> This is not good.

> Example 2, A kenwood tracker running as WKNXYZ signals an
> emergency. In all the confusion and bedlam at his scene, he turns
> off the radio and forgets to cancel the emergency, and then is
> driven to the hospital. WKNXYZ is still showing at the bottom of
> the ravine with an EMERGENCY on every map for 200 miles; yet he is
> safely now in a hospital 30 miles away. The equivalence of
> stations and objects was designed just for that kind of situation.
> Anyone with fresh knowledge on the situation can then kill that old
> "station" from everyone's map by just sending out a KILL-OBJECT packet
> for WKNXYZ...

In summary, APRS operators who manually move things around an event map need to be able to move anything that is in the wrong place, not just "objects"... and have everyone's map match the intended display of the event. The elements of this design objective were:

1) Things transmitted in the "object" format should always be associated with the callsign of the SENDING station for accountability and system integrity.

2) Otherwise, Objects are no different from any other APRS position report. That means:

- * An incoming OBJECT replaces any occurrence of the same-name
- * An incoming POSITION replaces any occurrence of the same-name
- * A KILL OBJECT format kills any occurrence of the same-name
- * Name comparison is case sensitive. "WB4APR" does not equal "wb4apr"

I just thought I would clarify this point, because someone has pointed out that this detail of APRS design does not explicitly come across in the spec as written

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jun 12 16:51:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA06688
for <lyris.aprsspec@tapr.org>; Wed, 12 Jun 2002 16:51:37 -0500 (CDT)
Date: Wed, 12 Jun 2002 17:51:15 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: APRS TOCALLs and software versions (June 2002 revision)
Message-ID: <LYR11589-84591-2002.06.12-17.27.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206121746170.15351-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is the current list of APRS TOcalls and Version nomenclature that I
have updated.

- > APA A-Filter, Alinco, etc
- > APAFxx AFilter.
- > APAGxx AGATE
- > APAXxx AFilterX.
- > APAHxx AHub
- > APB avail
- > APC Windows CE, etc
- > APD APRSd, etc
- > APDTxx APRStouch Tone (DTMF)
- > APE avail
- > APF avail
- > APG Gates, etc

- > APH HamHud, etc
- > API Icom, etc
- > APICQx for ICQ
- > APJ JavaAPRS,JeAPRS,etc
- > APK Kenwood, etc
- > APK0xx THD7's
- > APK1xx D700's
- > APL Liunx applications
- > APM MacAPRS, etc
- > APN Network nodes, digis, etc
- > APNDxx DIGI_NED
- > APNUxx UIdigi
- > APO APRSpoint
- > APP pocketAPRS, etc
- > APQ avail
- > APR APR8xx APRSdos,etc
- > APRDxx APRSdata, APRSdr
- > APRKxx APRStk
- > APRS Generic, (obsolete. Digis should use APNxxx instead)
- > APRXxx APRSmax
- > APRTLM used my MIM's and Mic-lites, etc
- > APS APRS+SA, etc
- > APT TinyTrack
- > APTTx Tiny Track
- > APT2xx Tiny Track II
- > APTAxx K4ATM's tiny track
- > APTV for ATV/APRN and SSTV applications
- > APU UView, etc
- > APU1xx UView 16 bit applications
- > APU2xx UView 32 bit apps
- > APV avail
- > APW WinAPRS, etc
- > APX Xaprs, etc
- > APY etc, Yeasu, etc
- > APZ Experimental
- > APZ0xx Xastir
- > APZPAD Smart Palm
- >

Authors with similar alphabetic requirements are encouraged to share their address space with other software. Work out agreements amongst yourselves and keep me informed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Jun 12 17:00:28 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA07275
for <lyris.aprsspec@tappr.org>; Wed, 12 Jun 2002 17:00:27 -0500 (CDT)
Message-ID: <LYR11589-84593-2002.06.12-17.36.44--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 12 Jun 2002 22:59:58 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: APRS TOCALLs and software versions (June 2002 revision)
References: <LYR26815-84591-2002.06.12-17.27.53--
roger@peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-84591-2002.06.12-17.27.53--
roger@peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <kRyq6gAeR8B9Ewgq@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-84591-2002.06.12-17.27.53--roger@peaksys.co.uk@lists.tappr.org>, Bob Bruninga <bruninga@usna.edu> writes
>Here is the current list of APRS TOcalls and Version nomenclature that I
>have updated.

>
[snip]
>> APU UView, etc
>> APU1xx UView 16 bit applications
>> APU2xx UView 32 bit apps

I've also used APU3xx for an unproto terminal with some APRS capabilities.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jun 13 10:23:12 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA27591
for <lyris.aprsspec@tapr.org>; Thu, 13 Jun 2002 10:23:11 -0500 (CDT)
Date: Thu, 13 Jun 2002 11:20:48 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS TOCALLs/versions (June 2002 2nd revision)
Message-ID: <LYR11589-84760-2002.06.13-10.58.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206131114230.4470-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The copy from yesterday still did not have some of the feedback I had received. Here is the LATEST copy that I hope includes everyone's requests: It adds:

- APCY for the Cybiko
- APJA for JavAPRS
- APJE for JeAPRS
- APU3 for UView terminal program

And it adds Xastir to the list under APX...

Here is the current list of APRS TOcalls and Version nomenclature that I have updated.

- APA A-Filter, Alinco, etc
 - APAFxx AFilter.
 - APAGxx AGATE
 - APAXxx AFilterX.
 - APAHxx AHub

APB avail
APC Windows CE, etc
 APCYxx Cybiko applications
APD APRSd, etc
 APDTxx APRStouch Tone (DTMF)
APE avail
APF avail
APG Gates, etc
APH HamHud, etc
API Icom, etc
 APICQx for ICQ
APJ JavaAPRS, JeAPRS, etc
 APJAx JavAPRS
 APJEx JeAPRS
APK Kenwood, etc
 APK0xx THD7's
 APK1xx D700's
APL Liunx applications
APM MacAPRS, etc
APN Network nodes, digis, etc
 APNDxx DIGI_NED
 APNUxx UIidigi
APO APRSpoint
APP pocketAPRS, etc
APQ avail
APR APR8xx APRSdos, etc
 APRDxx APRSdata, APRSdr
 APRKxx APRStk
 APRS Generic, (obsolete. Digis should use APNxxx instead)
 APRXxx APRSmax
 APRTL used my MIM's and Mic-lites, etc
APS APRS+SA, etc
APT TinyTrack
 APTTxx Tiny Track
 APT2xx Tiny Track II
 APTAX K4ATM's tiny track
 APTV for ATV/APRN and SSTV applications
APU UView, etc
 APU1xx UView 16 bit applications
 APU2xx UView 32 bit apps
 APU3xx UView terminal program
APV avail
APW WinAPRS, etc
APX Xaprs, Xastir, etc
APY etc, Yeasu, etc
APZ Experimental
 APZ0xx Xastir
 APZPAD Smart Palm

Authors with similar alphabetic requirements are encouraged to share their address space with other software. Work out agreements amongst yourselves and keep me informed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jun 13 12:35:35 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA05827
for <lyris.aprsspec@tappr.org>; Thu, 13 Jun 2002 12:35:30 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] 3rd party packet handling
Date: Thu, 13 Jun 2002 13:35:02 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-84786-2002.06.13-13.11.49--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <0206131335021J.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

During my efforts to flush out bugs in aprsd
I've found a problem in it's handing of 3rd party

packets. I can't fix it until I know exactly how they should be handled. This is only about the current state of affairs and not possible future means of handling these.

Issue #1:

To prevent RF=>Inet=>RF loops 3rd party packets must be treated differently. They can be stopped from entering the Internet from RF or they can be stopped from going to RF from the Internet or both. Current practice varies:

Mac/WinAPRS passes 3rd party pkts to the Internet from RF.

Aprsd kills 3rd party pkts from RF but allows them from Internet sources. It also will re-format a 3rd party pkt AGAIN if it thinks that packet should go to RF. (most likely a bad thing)

Others???

Issue #2 involves the "TCPIP" in the 3rd party header. Should it have and * or not. Current practice varies.

```
WB5BBW>APX112,WD5IYT-2,K5TXU-1*,WIDE/1:}
TR8FPH>TR8SL,TCPIP,WB5BBW*::TR8CA      :ack25
```

```
W8ID>APD214,KB8YVY,K1DE-5*:{W8ID-4>APW251,TCPIP*,W8ID*:=4106.46N/
08312.00WoPHG6360/WinAPRS 2.5.1
```

```
N8N0E>APM361,RELAY*,WIDE2-2:{K4PJY>APRS,TCPIP,N8N0E*:>Messaging is OFF.
phil@K4PJY.net
```

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jun 13 13:17:47 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA07773
for <lyris.aprsspec@tapr.org>; Thu, 13 Jun 2002 13:17:41 -0500 (CDT)
Date: Thu, 13 Jun 2002 14:17:15 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: 3rd party packet handling
In-Reply-To: <LYR11586-84786-2002.06.13-13.11.49--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-84789-2002.06.13-13.54.00--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206131415350.6669-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 13 Jun 2002, Dale Heatherington wrote:

> Issue #2 involves the "TCPIP" in the 3rd party header.
> Should it have and * or not. Current practice varies.

As always, my opinion is that it should be marked with a "*" once that field has been "used" to remain consistent with the has-been-used bit inherent in the AX.25 header format.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jun 13 22:16:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA05800
for <lyris.aprsspec@tapr.org>; Thu, 13 Jun 2002 22:16:27 -0500 (CDT)
Date: Thu, 13 Jun 2002 21:15:51 -0600 (MDT)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Dual-homed APRS Hosts
In-Reply-To: <LYR21162-84786-2002.06.13-13.11.49--
jmaslak#antelope.net@lists.tapr.org>
Message-ID: <LYR11589-84862-2002.06.13-22.52.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Joel Maslak <jmaslak@antelope.net>
X-Message-Id: <Pine.LNX.4.44.0206132106480.3928-1000000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The current internet server system has a problem when a user has both RF and Inet connectivity (I believe WinAPRS has the problem I'm about to describe).

Basically, user issues a query, such as "?APRS?" or "?IGATE?". This query goes out via BOTH the inet stream and RF.

A nearby IGATE will see that that station is in it's "heard" list and send the responses from the INTERNET ?IGATE? query back to RF... Obviously, this can be a very bad thing, as there are hundreds of responses now going out over the local RF net! Other bad things can happen when the IGATE itself gates someone's query to the internet (IMHO, this should not be allowed by IGates).

I've modified my copy of APRSD to drop all queries, no matter what the origin. But I can't stop the responses to the queries, since the formats vary so much. So the dual-homed problem still exists. I've seen cases where these dual-homed systems caused 15 minutes of solid traffic due to the hundreds and thousands of responses, and the digipeating of those responses once gated to RF. I've banned a couple of users at my IGates

for short periods of time due to their usage of queries.

My proposal:

1) IGate developers ensure that their software does NOT send queries from RF to the Internet - EVER.

2) End-user software developers require separate SSIDs on each "interface" on a multi-homed system, be that a RF, Inet, LAN, or whatever interface. Packets originating from a host will use the address of the interface which sent the packet. Thus, if someone sent a query out to the internet, the sending callsign won't be in the heard list of the local IGATEs, thus the responses won't get gated to RF - clogging the system.

--

Joel

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jun 13 22:33:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id WAA06354
for <lyris.aprsspec@tapr.org>; Thu, 13 Jun 2002 22:33:24 -0500 (CDT)
Subject: [aprsspec] RE: Dual-homed APRS Hosts
Date: Thu, 13 Jun 2002 22:33:05 -0500
Message-ID: <LYR11589-84865-2002.06.13-23.09.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Thread-Topic: [aprsspec] Dual-homed APRS Hosts
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
content-class: urn:content-classes:message
Thread-Index: AcITUfYJTta5v5qqS+KYnrGQLd0VSAAAV04w
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>

X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F0C@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id WAA06354

The problem you describe is unique to aprsD. Dale has corrected it in the latest version of aprsD. Basically, queries being passed from RF to APRS-IS should not be a problem as all defined generic queries are supposed to be responded to with non-message packets which will not be gated back to RF. However, current versions of aprsD (except for Dale's beta version) respond to ?IGATE? with a message. This causes the problem of a mass of messages being gated back to RF.

Instead of blocking all queries (I hope you are not blocking directed queries), aprsD users should upgrade to Dale's latest version to eliminate message responses to generic queries.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Joel Maslak [<mailto:jmaslak@antelope.net>]

> Posted At: Thursday, June 13, 2002 10:17 PM

> Subject: [aprsspec] Dual-homed APRS Hosts

>

> Basically, user issues a query, such as "?APRS?" or

> "?IGATE?". This query

> goes out via BOTH the inet stream and RF.

> out over the local RF net! Other bad things can happen when the IGATE
> itself gates someone's query to the internet (IMHO, this should not be
> allowed by IGates).

>

> I've modified my copy of APRSD to drop all queries, no matter what the

> 1) IGate developers ensure that their software does NOT send queries
> from RF to the Internet - EVER.

>

> 2) End-user software developers require seperate SSIDs on
> each "interface"

> on a multi-homed system, be that a RF, Inet, LAN, or whatever
> interface.

> Packets originating from a host will use the address of the interface
> which sent the packet. Thus, if someone sent a query out to
> the internet,

> the sending callsign won't be in the heard list of the local
> IGATEs, thus
> the responses won't get gated to RF - clogging the system.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 02:28:57 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA15942
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 02:28:56 -0500 (CDT)
Message-ID: <LYR11589-84903-2002.06.14-03.05.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 14 Jun 2002 08:27:43 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
References: <LYR21162-84786-2002.06.13-13.11.49--
jmaslak#antelope.net@lists.tapr.org>
<LYR26815-84862-2002.06.13-22.52.36--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-84862-2002.06.13-22.52.36--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <dkt0HvAvrZC9Ewsb@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-84862-2002.06.13-22.52.36--roger#peaksys.co.uk@list
s.tapr.org>, Joel Maslak <jmaslak@antelope.net> writes
>The current internet server system has a problem when a user has both RF
>and Inet connectivity (I believe WinAPRS has the problem I'm about to
>describe).
>
>Basically, user issues a query, such as "?APRS?" or "?IGATE?". This query
>goes out via BOTH the inet stream and RF.
[snip]

>2) End-user software developers require separate SSIDs on each "interface"
>on a multi-homed system, be that a RF, Inet, LAN, or whatever interface.

If that means what I think it means, then each interface effectively becomes a separate station, which seems to me to be a big hammer to crack a small nut.

Won't this fix the problem -

1. IGATEs never respond to queries from the internet.
2. IGATEs never gate queries from the internet to RF, which in any case will only ever happen if all traffic from a callsign is being "forced" through by some selection mechanism.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 03:32:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA26674
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 03:32:32 -0500 (CDT)
Message-ID: <LYR11589-84908-2002.06.14-04.08.46--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 14 Jun 2002 09:30:26 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
References: <LYR21162-84786-2002.06.13-13.11.49--
jmaslak@antelope.net@lists.tapr.org>
<LYR26815-84862-2002.06.13-22.52.36--roger@peaksys.co.uk@lists.tapr.org>
<LYR26815-84903-2002.06.14-03.05.16--roger@peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-84903-2002.06.14-03.05.16--
roger@peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <G3eCz3BimaC9Ew\$S@peaksys.co.uk>

Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

In message <LYR26815-84903-2002.06.14-03.05.16--roger#peaksys.co.uk@lists.tapir.org>, Roger Barker <roger@peaksys.co.uk> writes
[snip]
>

>2. IGATEs never gate queries from the internet to RF, which in any case
>will only ever happen if all traffic from a callsign is being "forced"
>through by some selection mechanism.

I should, of course, have said "general queries".

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Fri Jun 14 07:44:52 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id HAA06188
for <lyris.aprsspec@tapir.org>; Fri, 14 Jun 2002 07:44:49 -0500 (CDT)
Date: Fri, 14 Jun 2002 06:44:05 -0600 (MDT)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] RE: Dual-homed APRS Hosts
In-Reply-To: <LYR21162-84865-2002.06.13-23.09.43--jmaslak#antelope.net@lists.tapir.org>
Message-ID: <LYR11589-84918-2002.06.14-08.21.04--lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
Reply-To: Joel Maslak <jmaslak@antelope.net>
X-Message-Id: <Pine.LNX.4.44.0206140640500.8351-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Thu, 13 Jun 2002, AE5PL Lists wrote:

> The problem you describe is unique to aprsD. Dale has corrected it in
> the latest version of aprsD. Basically, queries being passed from RF to
> APRS-IS should not be a problem as all defined generic queries are
> supposed to be responded to with non-message packets which will not be
> gated back to RF. However, current versions of aprsD (except for Dale's
> beta version) respond to ?IGATE? with a message. This causes the
> problem of a mass of messages being gated back to RF.

What is gained by not blocking undirected queries, if the responses won't be heard regardless?

Choice 1: Block the responses to undirected queries

Pro: Lets the query get to the Inet even though most responses won't be heard. (seems pointless to me)

Con: There are going to be lots of old APRSD stations around for a while... I'm also not positive only APRSD does this particular behaviour. So, basically, today you would still clog your RF stream if you didn't block the undirected queries. But this is a problem different then the one I was trying to address.

Choice 2: Block the undirected query requests

Pro: Let's the local system operators protect their own RF LAN without relying on other people being "on the ball".

Con: The query obviously never gets to the Inet...

--

Joel Maslak
N7XUC

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 08:16:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA07955
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 08:16:48 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 09:16:27 -0400

Content-Type: text/plain;
charset="US-ASCII"
References: <LYR18156-84862-2002.06.13-22.52.36--dale#wa4dsy.net@lists.tappr.org>
In-Reply-To: <LYR18156-84862-2002.06.13-22.52.36--dale#wa4dsy.net@lists.tappr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-84926-2002.06.14-08.53.11--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <0206140916271S.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

When released aprsd215 will not pass ?IGATE? queries
from RF to Internet. It will respond to a ?IGATE?
query from RF with a single non-directed response
back to RF. So, 1 query generates 1 response.

Directed queries are ignored.
Non-directed queries from the Internet generate
a non-directed response back to the Internet.

Dale
WA4DSY

On Thursday 13 June 2002 11:15 pm, Joel Maslak wrote:
> The current internet server system has a problem when a user has both RF
> and Inet connectivity (I believe WinAPRS has the problem I'm about to
> describe).
>
> Basically, user issues a query, such as "?APRS?" or "?IGATE?". This query
> goes out via BOTH the inet stream and RF.
>
> A nearby IGATE will see that that station is in it's "heard" list and send
> the responses from the INTERNET ?IGATE? query back to RF... Obviously,
> this can be a very bad thing, as there are hundreds of responses now going
> out over the local RF net! Other bad things can happen when the IGATE
> itself gates someone's query to the internet (IMHO, this should not be
> allowed by IGates).
>
> I've modified my copy of APRSD to drop all queries, no matter what the
> origin. But I can't stop the responses to the queries, since the formats

> vary so much. So the dual-homed problem still exists. I've seen cases
> where these dual-homed systems caused 15 minutes of solid traffic due to
> the hundreds and thousands of responses, and the digipeating of those
> responses once gated to RF. I've banned a couple of users at my IGates
> for short periods of time due to their usage of queries.
>
> My proposal:
>
> 1) IGate developers ensure that their software does NOT send queries
> from RF to the Internet - EVER.
>
> 2) End-user software developers require separate SSIDs on each "interface"
> on a multi-homed system, be that a RF, Inet, LAN, or whatever interface.
> Packets originating from a host will use the address of the interface
> which sent the packet. Thus, if someone sent a query out to the internet,
> the sending callsign won't be in the heard list of the local IGATES, thus
> the responses won't get gated to RF - clogging the system.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 08:30:36 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA08373
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 08:30:30 -0500 (CDT)
Subject: [aprsspec] RE: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 08:30:17 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-84927-2002.06.14-09.06.56--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Type: text/plain;
charset="US-ASCII"
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] RE: Dual-homed APRS Hosts
Thread-Index: AcIToXtFRDtSV24JSEKHQtGLTQzAoQABTTfg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F0F@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA08373

> -----Original Message-----

> From: Joel Maslak [mailto:jmaslak@antelope.net]

> Posted At: Friday, June 14, 2002 7:46 AM

> Subject: [aprsspec] RE: Dual-homed APRS Hosts

>

> Con: There are going to be lots of old APRSD stations around for a

> while... I'm also not positive only APRSD does this

> particular behaviour.

> So, basically, today you would still clog your RF stream if you didn't

> block the undirected queries. But this is a problem

> different then the

> one I was trying to address.

>

> Choice 2: Block the undirected query requests

> Pro: Let's the local system operators protect their own RF LAN without

> relying on other people being "on the ball".

> Con: The query obviously never gets to the Inet...

As you noted, there will be a lot of old aprsD stations around for a while. What you didn't note is that there will be a factor of at least 10 times as many "old" IGate stations around for even longer. Hence, your solution is even less likely to be fully implemented. I don't have any problem with IGates not gating general queries from RF to the Internet (they shouldn't be gated from the Internet to RF as they are not messages). But, it should not be assumed that this will automatically fix things due to older software continuing to be in use.

73,

Pete Loveall AE5PL

<http://www.ae5pl.net>

<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jun 14 08:53:32 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA09092
for <lyris.aprsspec@tappr.org>; Fri, 14 Jun 2002 08:53:26 -0500 (CDT)
Message-ID: <LYR11589-84934-2002.06.14-09.29.28--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 08:52:45 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
X-Message-Id: <01C21380.DA3F0520.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Dale,

What will the non-directed response look like?

Bill KC9XG

On Friday, June 14, 2002 08:16, Dale Heatherington [SMTP:dale@wa4dsy.net] wrote:

>
> When released aprsd215 will not pass ?IGATE? queries
> from RF to Internet. It will respond to a ?IGATE?
> query from RF with a single non-directed response
> back to RF. So, 1 query generates 1 response.

> Directed queries are ignored.
> Non-directed queries from the Internet generate
> a non-directed response back to the Internet.

> Dale
> WA4DSY
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 09:04:11 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA09429
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 09:04:02 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] 3rd Party
Date: Fri, 14 Jun 2002 10:03:22 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-84936-2002.06.14-09.40.22--
lyris.aprsspec@tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0206141003221T.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Assume we are a hub/server and receive a 3rd party packet.

>From RF:

Should we:

- (A) kill it.(aprsd style)
- (B) pass it on to the internet unmodified (Mac/WinAprs, Xastir)
- (C) Kill it only if it has been igated to RF from Internet (TCPIP in hdr), else do (B)
- (D) If it has not igated (no TCPIP) then convert from 3rd party to normal and send to Internet , else do (B) or kill.

(E) Other

>From Internet:

- (A) Kill it.
- (B) pass it on unmodified (current practice)
- (C) Other

Our Inet to RF filter says it should go to RF
should we:

- (A) kill it ?
- (B) pass it on as-is (eg: strip path and send data to TNC)
- (C) Kill it only if it's been igated to RF before (has TCPIP in header)
- (D) wrap it in another 3rd party header † (aprsd does this now)
- (E) Other

Note that current practice has a literal loop hole. 3rd party pkts can re-enter the Internet stream via igates such as WinAPRS and be reinjected into the RF domain via aprsd.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 10:22:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA13356
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 10:22:48 -0500 (CDT)
Subject: [aprsspec] RE: 3rd Party
Date: Fri, 14 Jun 2002 09:35:29 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-84939-2002.06.14-10.59.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Type: text/plain;
charset="US-ASCII"
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] 3rd Party
Thread-Index: AcITrHFbvLz080y4QvCy0GIfmRIwigAAs1IA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F11@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA13356

> -----Original Message-----

> From: Dale Heatherington [mailto:dale@wa4dsy.net]

> Posted At: Friday, June 14, 2002 9:05 AM

> Subject: [aprsspec] 3rd Party

>

> Assume we are a hub/server and receive a 3rd party packet.

> From RF:

> Should we:

> (B) pass it on to the internet unmodified (Mac/WinAprs, Xastir)

> (D) If it has not igated (no TCPIP) then convert from 3rd

> party to normal

> and send to Internet , else kill.

I think D best matches what has been discussed here. Note that it should not be gated to the Internet if it came from an IGate (TCPIP in the third-party header).

> From Internet:

> (A) Kill it.

No third-party packets should exist on APRS-IS. They should have been modified per D above prior to gating to APRS-IS.

> Our Inet to RF filter says it should go to RF

Interesting question. However, per the above paragraph, if it is a 3rd party packet, it should be killed. If it is a standard packet, it should be gated with a 3rd party header if it was not already heard by the IGate on RF. This will prevent it from being gated back to the Internet since it would have TCPIP in the 3rd party header.

> Note that current practice has a literal loop hole. 3rd party

> pkts can re-enter

> the Internet stream via igates such as WinAPRS and be reinjected into

> the RF domain via aprsd.

This is why we are filtering out all 3rd party packets on APRS-IS. If the packet modification shown in D above is done, then this filtering can remain in place but non-IGate originated 3rd party packets will still be properly represented on APRS-IS.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 10:27:11 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA14095
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 10:27:07 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 10:25:56 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR18156-84934-2002.06.14-09.29.28--dale#wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-84934-2002.06.14-09.29.28--dale#wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-84941-2002.06.14-11.03.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0206141025561U.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Friday 14 June 2002 09:52 am, Bill Diaz wrote:
> Dale,
> What will the non-directed response look like?
>
> Bill KC9XG

Here's one from my test and dev. system.


```
testaprsd>APD215,TCPIP*:<IGATE,MSG_CNT=0,LOC_CNT=0,CALL=WA4DSY-3,  
LOCATION=Atlanta_GA,HOST=lab1.wa4dsy.net,IP=216.27.174.141,  
EMAIL=sysop@myisp.net,VERS=aprsd 2.1.5b1.6
```

Note. It's really one line.

>

```
> On Friday, June 14, 2002 08:16, Dale Heatherington [SMTP:dale@wa4dsy.net] wrote:  
> > When released aprsd215 will not pass ?IGATE? queries  
> > from RF to Internet. It will respond to a ?IGATE?  
> > query from RF with a single non-directed response  
> > back to RF. So, 1 query generates 1 response.  
> >  
> > Directed queries are ignored.  
> > Non-directed queries from the Internet generate  
> > a non-directed response back to the Internet.  
> >  
> > Dale  
> > WA4DSY
```

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 11:06:38 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA16179
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 11:06:32 -0500 (CDT)
Message-Id: <LYR11589-84949-2002.06.14-11.43.10--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Fri, 14 Jun 2002 09:05:19 -0700
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] RE: 3rd Party
In-Reply-To: <LYR19173-84939-2002.06.14-10.59.35--wa7nwp@yahoo.com@lists

.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20020614085202.009fa770@pioneernet.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
> > Assume we are a hub/server and receive a 3rd party packet.
> > From RF:
> > Should we:
> > (B) pass it on to the internet unmodified (Mac/WinAprs, Xastir)
> > (D) If it has not igated (no TCPIP) then convert from 3rd
> > party to normal
> > and send to Internet , else kill.
>
> I think D best matches what has been discussed here. Note that it
> should not be gated to the Internet if it came from an IGate (TCPIP in
> the third-party header).

I have an additional "possible" use of 3rd party packets.

I was using Digi_ned to "gate" HF 10.151 packets to the local two meter network. They were being broadcast on two meters with a slightly modified path showing they'd come through my system.

What made it interesting was that I wasn't really planning to be a 10.151 transmitter.

So I was sending positions of stations around the country out on two meters, Igates would see them and assume there were "local". So when somebody sent a message to one of these HF stations - all the local Igates would gate the message from Internet to our local RF system.

I think the solution, given the current discussions, is to modify digi_ned so it can broadcast with 3rd party format. Then the HF stations can show up on the local RF and will be gated to the Internet (no TCPIP in the path) yet the Igates won't consider them as

locals.

Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 11:40:43 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17870
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 11:40:32 -0500 (CDT)
Message-ID: <LYR11589-84953-2002.06.14-12.17.18--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 11:40:09 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C21398.3DB19480.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Dale,

The APRS Spec indicates that the response to an ?IGATE? query should contain the following example response <IGATE,MSG_CNT=43,LOC_CNT=14

Presently, an ?IGATE? query can result in an enormous amount of data being sent to the IS. Some of the proposed improvements to the IS would reduce the number of ?IGATE? requests but we should consider limiting the responses to the format provided in the APRS Spec since there are quite a few users of the APRS IS who are charged by the volume of data received and sent.

aprsd15 ?IGATE? response has a total of 168 bytes in your example. Is it really necessary to append other information to the response?

Bill KC9XG

On Friday, June 14, 2002 09:26, Dale Heatherington [SMTP:dale@wa4dsy.net] wrote:

> On Friday 14 June 2002 09:52 am, Bill Diaz wrote:

> > Dale,

> > What will the non-directed response look like?

> >

> > Bill KC9XG

>

> Here's one from my test and dev. system.

>

> testaprsd>APD215,TCPIP*:<IGATE,MSG_CNT=0,LOC_CNT=0,CALL=WA4DSY-3,

> LOCATION=Atlanta_GA,HOST=lab1.wa4dsy.net,IP=216.27.174.141,

> EMAIL=sysop@myisp.net,VERS=aprsd 2.1.5b1.6

>

> Note. It's really one line.

>

>

> >

>

>

> > On Friday, June 14, 2002 08:16, Dale Heatherington

[SMTP:dale@wa4dsy.net] wrote:

> > > When released aprsd215 will not pass ?IGATE? queries

> > > from RF to Internet. It will respond to a ?IGATE?

> > > query from RF with a single non-directed response

> > > back to RF. So, 1 query generates 1 response.

> > >

> > > Directed queries are ignored.

> > > Non-directed queries from the Internet generate

> > > a non-directed response back to the Internet.

> > >

> > > Dale

> > > WA4DSY

>

> --

> Dale Heatherington

> Web Page <http://www.wa4dsy.net>

> Sent by KMail for Linux

>

>

>

> ---

> You are currently subscribed to aprsspec as: kc9xg@attbi.com

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 12:47:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA22303
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 12:47:56 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 13:47:35 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR18156-84953-2002.06.14-12.17.18--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-84953-2002.06.14-12.17.18--dale@wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-84976-2002.06.14-13.24.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <0206141347351V.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Friday 14 June 2002 12:40 pm, Bill Diaz wrote:

> Dale,
> The APRS Spec indicates that the response to an ?IGATE? query should
> contain the following example response <IGATE,MSG_CNT=43,LOC_CNT=14
>
> Presently, an ?IGATE? query can result in an enormous amount of data being
> sent to the IS. Some of the proposed improvements to the IS would reduce
> the number of ?IGATE? requests but we should consider limiting the
> responses to the format provided in the APRS Spec since there are quite a
> few users of the APRS IS who are charged by the volume of data received and
> sent.
>
> aprsd15 ?IGATE? response has a total of 168 bytes in your example. Is it
> really necessary to append other information to the response?
>

> Bill KC9XG

No. However, it conveys additional information about igates/Servers within range of the RF station. It was my understanding that additional TOKEN=VALUE pairs could be defined.

Of what use is MSG_CNT and LOC_CNT?

What sort of information would be useful?

>
>
> On Friday, June 14, 2002 09:26, Dale Heatherington [SMTP:dale@wa4dsy.net]
>
> wrote:
> > On Friday 14 June 2002 09:52 am, Bill Diaz wrote:
> > > Dale,
> > > What will the non-directed response look like?
> > >
> > > Bill KC9XG
> >
> > Here's one from my test and dev. system.
> >
> > testaprsd>APD215,TCPIP*:<IGATE,MSG_CNT=0,LOC_CNT=0,CALL=WA4DSY-3,
> > LOCATION=Atlanta_GA,HOST=lab1.wa4dsy.net,IP=216.27.174.141,
> > EMAIL=sysop@myisp.net,VERS=aprsd 2.1.5b1.6
> >
> > Note. It's really one line.
> >
> > > On Friday, June 14, 2002 08:16, Dale Heatherington
>
> [SMTP:dale@wa4dsy.net] wrote:
> > > > When released aprsd215 will not pass ?IGATE? queries
> > > > from RF to Internet. It will respond to a ?IGATE?
> > > > query from RF with a single non-directed response
> > > > back to RF. So, 1 query generates 1 response.
> > > >
> > > > Directed queries are ignored.
> > > > Non-directed queries from the Internet generate
> > > > a non-directed response back to the Internet.
> > > >
> > > > Dale
> > > > WA4DSY

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 12:59:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA22665
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 12:59:38 -0500 (CDT)
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 12:59:31 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-84980-2002.06.14-13.36.27--
lyris.aprsspec@tapr.org>
Content-Type: text/plain;
charset="US-ASCII"
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] Re: Dual-homed APRS Hosts
Thread-Index: AcITy8FFaVHSko0gR1u5qFe5aDcvRQAAC7FA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CBFB@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id MAA22665

> -----Original Message-----

> From: Dale Heatherington [<mailto:dale@wa4dsy.net>]

> Posted At: Friday, June 14, 2002 12:49 PM

> Subject: [aprsspec] Re: Dual-homed APRS Hosts

>

> range of the RF station. It was my understanding that additional

> TOKEN=VALUE pairs could be defined.

You are correct, Dale. The spec does not limit you to MSG_CNT and LOC_CNT. It just says that those are "currently defined capabilities".

> Of what use is MSG_CNT and LOC_CNT?

These were of more importance in earlier times to let people know how many stations the IGate thought should be gated to. It also helped to know how many messages the IGate had gated. These are purely informational.

> What sort of information would be useful?

?IGATE? queries do not occur very often so undirected responses do not greatly impact APRS-IS performance. However, the directed responses have been a problem for the RF side of things but your modifications remove that as an issue.

The information contained in your station capabilities packet is useful. I am sure other things could be determined useful, as well. I would say that this is pretty open-ended according to the spec. You don't want it to be too long, but it is up to the various authors such as yourself to determine what other capabilities would be useful.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 13:07:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23044
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 13:07:10 -0500 (CDT)
Message-ID: <LYR11589-84983-2002.06.14-13.43.54--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Tim Cunningham" <tim_cunningham@mindspring.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR18156-84953-2002.06.14-12.17.18--dale@wa4dsy.net@lists.tapr.org>
<LYR11672-84976-2002.06.14-13.24.42--tim_cunningham@mindspring.com@lists.tapr.org>

Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 13:03:18 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Tim Cunningham" <tim_cunningham@mindspring.com>
X-Message-Id: <004301c213ce\$1e93d230\$6601a8c0@usf.teradyne.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

LOC_CNT tells me that my RF port is working or at least hearing something on my IGATE when I am on the road. If I see the number drop significantly I know there is an RF, TNC, or communication problem with the computer to the RF side of the port.

MSG_CNT is another indicator to help diagnose a problem remotely. If I see the count increasing and my LOC_CNT is failing, the remote diagnosis would be that the RF port is not working but the TCP/IP port is working.

Are they useful? Only if there is a problem and you are trying to determine which indicators are abnormal. My IGATE is remotely located so I rely on these and other parameters I can request remotely to give a clue if there is any trouble with the gateways operation.

Tim - N8DEU

----- Original Message -----

From: "Dale Heatherington" <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Sent: Friday, June 14, 2002 12:47 PM
Subject: [aprsspec] Re: Dual-homed APRS Hosts

> On Friday 14 June 2002 12:40 pm, Bill Diaz wrote:

> > Dale,

> > The APRS Spec indicates that the response to an ?IGATE? query should

> > contain the following example response <IGATE,MSG_CNT=43,LOC_CNT=14

> >

> > Presently, an ?IGATE? query can result in an enormous amount of data

> being

> > sent to the IS. Some of the proposed improvements to the IS would reduce

> > the number of ?IGATE? requests but we should consider limiting the

> > responses to the format provided in the APRS Spec since there are quite

> a

> > few users of the APRS IS who are charged by the volume of data received

> and

> > sent.

> >

> > aprsd15 ?IGATE? response has a total of 168 bytes in your example. Is

> it

> > really necessary to append other information to the response?

> >

> > Bill KC9XG

>

> No. However, it conveys additional information about igates/Servers

> within

> range of the RF station. It was my understanding that additional

> TOKEN=VALUE pairs could be defined.

>

> Of what use is MSG_CNT and LOC_CNT?

>

> What sort of information would be useful?

>

>

>

>

> >

> >

> > On Friday, June 14, 2002 09:26, Dale Heatherington

> [SMTP:dale@wa4dsy.net]

> >

> > wrote:

> > > On Friday 14 June 2002 09:52 am, Bill Diaz wrote:

> > > > Dale,

> > > > What will the non-directed response look like?

> > > >

> > > > Bill KC9XG

> > >

> > > Here's one from my test and dev. system.

> > >

> > > testaprsd>APD215,TCPIP*:<IGATE,MSG_CNT=0,LOC_CNT=0,CALL=WA4DSY-3,

```

> > > LOCATION=Atlanta_GA,HOST=lab1.wa4dsy.net,IP=216.27.174.141,
> > > EMAIL=sysop@myisp.net,VERS=aprsd 2.1.5b1.6
> > >
> > > Note. It's really one line.
> > >
> > > > On Friday, June 14, 2002 08:16, Dale Heatherington
> > >
> > [SMTP:dale@wa4dsy.net] wrote:
> > > > > When released aprsd215 will not pass ?IGATE? queries
> > > > > from RF to Internet. It will respond to a ?IGATE?
> > > > > query from RF with a single non-directed response
> > > > > back to RF. So, 1 query generates 1 response.
> > > > >
> > > > > Directed queries are ignored.
> > > > > Non-directed queries from the Internet generate
> > > > > a non-directed response back to the Internet.
> > > > >
> > > > > Dale
> > > > > WA4DSY
>
>
> --
> Dale Heatherington
> Web Page http://www.wa4dsy.net
> Sent by KMail for Linux
>
>
>
> ---
> You are currently subscribed to aprsspec as: tim_cunningham@mindspring.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

```

```

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

```

```

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 13:09:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23103
    for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 13:09:12 -0500 (CDT)
Message-ID: <LYR11589-84986-2002.06.14-13.45.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <william.diaz@attbi.com>

```

Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Dual-homed APRS Hosts
Date: Fri, 14 Jun 2002 13:08:44 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <01C213A4.9D235D20.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Dale,

On Friday, June 14, 2002 12:48, Dale Heatherington [SMTP:dale@wa4dsy.net] wrote:

> On Friday 14 June 2002 12:40 pm, Bill Diaz wrote:

> > Dale,

> > The APRS Spec indicates that the response to an ?IGATE? query should
> > contain the following example response <IGATE,MSG_CNT=43,LOC_CNT=14

> > Presently, an ?IGATE? query can result in an enormous amount of data
being

> > sent to the IS. Some of the proposed improvements to the IS would
reduce

> > the number of ?IGATE? requests but we should consider limiting the
> > responses to the format provided in the APRS Spec since there are quite
a

> > few users of the APRS IS who are charged by the volume of data received
and

> > sent.

> > aprsd15 ?IGATE? response has a total of 168 bytes in your example. Is
it

> > really necessary to append other information to the response?

> >

> > Bill KC9XG

> No. However, it conveys additional information about igates/Servers
within

> range of the RF station. It was my understanding that additional

> TOKEN=VALUE pairs could be defined.

The original problem with responses to ?IGATE? queries from RF was that the

local channel would be overwhelmed with numerous lengthy replies. Very easy to render a local RF Channels useless if even one of these queries is passed to the Internet and lengthy responses are returned to RF.

Additionally, we need to consider the burden placed on restricted bandwidth connections and the cost to some users for data delivered on the Internet.

> Of what use is MSG_CNT and LOC_CNT?

> What sort of information would be useful?

The information provided should be kept as short as reasonably practical. If users are allowed to add information to those responses, then we will still see extremely long packets. Presently, not unusual to see responses of 250+ bytes from some sysops. I think that most of the other IGATE applications return only MSG_CNT and LOC_CNT..

Bill

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 14 17:35:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA06234
for <lyris.aprsspec@tapr.org>; Fri, 14 Jun 2002 17:35:11 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: 3rd party
Date: Fri, 14 Jun 2002 18:34:48 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-85012-2002.06.14-18.11.55--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0206141834481X.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I tend to agree with Pete.
To summarize:

Igate receives 3rd party packet from RF.
Do this:

- If it's been igated (TCPIP in 3rd party path) kill it.
- If not, convert to normal and pass it to Internet.

Server receives 3rd party packet from another server or Igate.
Do this:
Kill it.

This can produce a loop if
an application not playing by the rules
inserts a packet into RF from Internet without
TCPIP or TCPIP* in the 3rd party path and
the packet spends more than the duplicate
detector time limit in the RF domain before
it returns to the original Igate.
Are there any known apps that do not
insert TCPIP?

The current situation may be much worse
with most Igates passing 3rd party packets
to the Internet and aprsd possibly wrapping
them into another 3rd party packet and sending
them back to RF.

--

Dale Heatherington
Web Page <http://www.wa4dsy>

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 16 15:54:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA11410
for <lyris.aprsspec@tapr.org>; Sun, 16 Jun 2002 15:54:05 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: 3rd party
Date: Sun, 16 Jun 2002 16:53:45 -0400
Content-Type: text/plain;
charset="iso-8859-1"
References: <0206141834481X.01374@lab1.wa4dsy.net>
In-Reply-To: <0206141834481X.01374@lab1.wa4dsy.net>
MIME-Version: 1.0
Message-Id: <LYR11589-85313-2002.06.16-16.30.57--lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <02061616534522.01374@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

After some thought it seems it might
be of advantage to simplify the 3rd party
handling procedure.

Igate or server/hub receives a 3rd party packet
from anywhere.

Do this:

If it's been igated (TCPIP in 3rd party path) kill it.

If not, convert to normal and process as any normal packet.

My reasoning is as follows. 3rd party (3P) packets from RF without TCPIP in the 3P header have not been igated. Since 3P packets are not allowed on the Internet System (IS) and there are useful applications (according to Bob) that can only work by wrapping data in 3P format, it's desirable to convert them to normal format.

Most Igate currently pass all 3P packets to servers/hubs unmodified. It can be assumed almost all came from RF. If, instead of killing all of these packets, servers/hubs only kill the ones with TCPIP (has been igated) and convert the others to normal, we effectively upgrade all the old igates. They should be doing it themselves anyway.

Are there any technical or political reasons not to do this?

On Friday 14 June 2002 06:34 pm, Dale Heatherington wrote:

- > I tend to agree with Pete.
- > To summarize:
- >
- > Igate receives 3rd party packet from RF.
- > Do this:
- > If it's been igated (TCPIP in 3rd party path) kill it.
- > If not, convert to normal and pass it to Internet.
- >
- > Server receives 3rd party packet from another server or Igate.
- > Do this:
- > Kill it.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 17 01:48:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA07176
for <lyris.aprsspec@tapr.org>; Mon, 17 Jun 2002 01:48:31 -0500 (CDT)
Message-ID: <LYR11589-85376-2002.06.17-02.25.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: sv1rd@nbg.gr
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: aprsspec digest: June 16, 2002
Date: Mon, 17 Jun 2002 09:48:20 +0200
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-7"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: sv1rd@nbg.gr
X-Message-Id: <429DC51FFF48D311B1E80000836615880202775C@MAIL>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Maybe we need a switch.
There are 2 possibilities

1. Igate with Internet Connection
2. Igate serving a LAN without Internet Connection

I used aprsd in my shack with 3 clients without Internet connection
and no station or message transmitted fm local Igate received to my APRS
clients

Tasos sv1rd@qsl.net

-----Original Message-----

Subject: Re: 3rd party
From: Dale Heatherington <dale@wa4dsy.net>
Date: Sun, 16 Jun 2002 16:53:45 -0400
X-Message-Number: 1

After some thought it seems it might
be of advantage to simplify the 3rd party
handling procedure.

Igate or server/hub receives a 3rd party packet
from anywhere.

Do this:

If it's been igated (TCPIP in 3rd party path) kill it.
If not, convert to normal and process as any normal packet.

My reasoning is as follows. 3rd party (3P) packets from RF without TCPIP in the 3P header have not been igated. Since 3P packets are not allowed on the Internet System (IS) and there are useful applications (according to Bob) that can only work by wrapping data in 3P format, it's desirable to convert them to normal format.

Most Igates currently pass all 3P packets to servers/hubs unmodified. It can be assumed almost all came from RF. If, instead of killing all of these packets, servers/hubs only kill the ones with TCPIP (has been igated) and convert the others to normal, we effectively upgrade all the old igates. They should be doing it themselves anyway.

Are there any technical or political reasons not to do this?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jun 24 10:59:47 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA08749
for <lyris.aprsspec@tapr.org>; Mon, 24 Jun 2002 10:59:38 -0500 (CDT)
Date: Mon, 24 Jun 2002 11:59:08 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Keith Sproul <ksproul@vger.rutgers.edu>,
Mark Sproul <msproul@jove.rutgers.edu>,
Mike Musick <mikemusick@earthlink.net>,
Brent Hildebrand <bhildebrand@earthlink.net>,
Roger Barker <roger@peaksys.co.uk>, "Curt Mills, WE7U" <we7u@mail.com>
Subject: [aprsspec] PHG circles
Message-ID: <LYR11589-86455-2002.06.24-11.36.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206241142130.22944-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Authors... Regarding PHG circles:

I think it is time to re-do how we display PHG circles on APRS maps.
The present formula is only an approximation and assumes a fixed station
without mobile multipath.

But Mobiles have multipath and the literature suggests an RMS average of
about 6 to 10 dB and frequent 20 to 40 dB fades. If we ignore the
deep and infrequent fades, the 6 dB typical fade translates to a 50%
reduction in range and 10 dB would be a 33% range compared to fixed
stations.

Unless someone has a better idea, I would suggest that authors consider a
dual method of displaying PHG circles separatly for how they would appear
to mobiles and for how they appear to basestations. I'm thinking of using
the 50% size for mobiles...

Possible display options:

- 1) always display both, but in different colors
- 2) Always display the worst case (mobile) circles but have a FIXED station
option.
- 3) Force a Prompt or selection each time circles are displayed.

I will probably do #2 to keep the map clutter down... and to give the
conservative answer to the casual observer.. Or always prompt them to
chose one or the other...

Yes, all of these are crude approximations, but PHG was not intended to be
a hi-fi terrain propogation model, just a simple indication of the first
order approximation of range related to HAAT.

Just a suggestion. But whatever we do, we need to do it consistently so
that users of different software will have the same approximation for
mobiles. Is 50% the right number to use? Or less? Maybe 40%?

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jun 26 16:14:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA06052
for <lyris.aprsspec@tapr.org>; Wed, 26 Jun 2002 16:14:48 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Introducing the new Omni Port in aprsd 215 beta1.8
Date: Wed, 26 Jun 2002 17:12:17 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-86817-2002.06.26-16.50.28--
lyris.aprsspec@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0206261712170C.01391@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This thing allows the users to define
their own data streams. Click this link for documenation.
<http://www.wa4dsy.net/aprs/ports215.html#omniport>

The beta test version is running on wa4dsy.net port 14600
There is a bug preventing "raw" from working.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jun 27 13:53:26 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA05982
for <lyris.aprsspec@tappr.org>; Thu, 27 Jun 2002 13:53:23 -0500 (CDT)
Date: Thu, 27 Jun 2002 14:53:01 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: aprsspec@lists.tappr.org
Subject: [aprsspec] Kantroincs DIgipeaters
Message-ID: <LYR11589-86940-2002.06.27-14.30.39--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206271447510.194-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I just programmed a KPC-3 for WIDEn-N and realize that we should be using the TOCALL to identify the software version using the APNxxx version numbers.. something like APNK83 to show a "Node" using a Kantronics version 8.3 ROM. Put APNK83 in the UNPROTO and in the LTPATH commands.

I would suggest:

- APNK83 for a KPC-3 version 8.3
- APNP83 for a KPC-3PLUS version 8.3
- APN983 for a KPC-9612 or KPC-9612PLUS

Just a thought.
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jun 27 15:36:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA11198
for <lyris.aprsspec@tapr.org>; Thu, 27 Jun 2002 15:35:56 -0500 (CDT)
Date: Thu, 27 Jun 2002 16:35:45 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS TOCALLs/versions (June 2002 3rd revision)
Message-ID: <LYR11589-86955-2002.06.27-16.13.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206271625300.22328-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is the current list of APRS TOcalls and Version nomenclature that I have updated. Added several new suggestions for digipeaters under APN and added APB for the little Rabbit TCPIP/controllers.

- APA A-Filter, Alinco, etc
 - APAFxx AFilter.
 - APAGxx AGATE
 - APAXxx AFilterX.
 - APAHxx AHub
- APB Rabbit TCPIP microprocessors
- APC Windows CE, etc
 - APCYxx Cybiko applications
- APD APRSd, etc
 - APDTxx APRStouch Tone (DTMF)
- APE avail
- APF avail
- APG Gates, etc
- APH HamHud, etc
- API Icom, etc

- APICQx for ICQ
- APJ JavaAPRS, JeAPRS, etc
 - APJAxX JavAPRS
 - APJExX JeAPRS
- APK Kenwood, etc
 - APK0xx THD7's
 - APK1xx D700's
- APL Liunx applications
- APM MacAPRS, etc
- APN Network nodes, digis, etc
 - APN3xx Kantronics KPC-3 rom versions
 - APN9xx Kantronics KPC-9612 Roms
 - APNMxx MJF TNC roms
 - APNPxx Paccom TNC roms
 - APNDxx DIGI_NED
 - APNUxx UIidigi
- APO APRSpoint
- APP pocketAPRS, etc
- APQ avail
- APR APR8xx APRSdos, etc
 - APRDxx APRSdata, APRSdr
 - APRKxx APRStk
 - APRS Generic, (obsolete. Digis should use APNxxx instead)
 - APRXxx APRSmax
 - APRTLm used my MIM's and Mic-lites, etc
- APS APRS+SA, etc
- APT TinyTrack
 - APTTxx Tiny Track
 - APT2xx Tiny Track II
 - APTAXx K4ATM's tiny track
 - APTV for ATV/APRN and SSTV applications
- APU UView, etc
 - APU1xx UView 16 bit applications
 - APU2xx UView 32 bit apps
 - APU3xx UView terminal program
- APV avail
- APW WinAPRS, etc
- APX Xaprs, Xastir, etc
- APY etc, Yeasu, etc
- APZ Experimental
 - APZ0xx Xastir (old versions. See APX)
 - APZPAD Smart Palm

Authors with similar alphabetic requirements are encouraged to share their address space with other software. Work out agreements amongst yourselves and keep me informed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jun 27 15:42:23 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA11989
for <lyris.aprsspec@tappr.org>; Thu, 27 Jun 2002 15:42:18 -0500 (CDT)
Date: Thu, 27 Jun 2002 16:40:53 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: TAPR APRS SIG <aprssig@lists.tappr.org>
Subject: [aprsspec] Kantronics Digipeaters
In-Reply-To: <LYR11586-86940-2002.06.27-14.30.39--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-86957-2002.06.27-16.18.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0206271635540.22328-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 27 Jun 2002, Bob Bruninga wrote:

```
> We should be using the TOCALL to identify DIGI software version
> numbers... I would suggest:
>
> APNK83 for a KPC-3 version 8.3
> APNP83 for a KPC-3PLUS version 8.3
> APN983 for a KPC-9612 or KPC-9612PLUS
```

00ps...BAD IDEA. The P should be used for PACCOMM roms. SO here is what I have now penciled into the list of version numbers...

```
APN383 for a KPC-3 or KPC-3PLUS version 8.3
APN983 for a KPC-9612 or KPC-9612PLUS
APNP50 for a Paccomm version 5.0 etc
APNMxx for MFJ, etc
```

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 28 12:47:52 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA13813
for <lyris.aprsspec@tapr.org>; Fri, 28 Jun 2002 12:47:44 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] IS path trace and qAC in aprsd
Date: Fri, 28 Jun 2002 13:47:25 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-87129-2002.06.28-13.25.06--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0206281347250P.01391@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

One of the last things I need to do before releasing an aprsd215 beta #2 is settle on how packet source tracing and loop prevention should be done. I do not want to simply code and release it. I want some feedback.

After that is settled I need input about Inet to RF 3rd party path construction. Lets do one at a time, with source tracing/loop prevention first.

I have several choices for path tracing.

- 1) No path tracing. Leave the path as is.
- 2) UI-View style. Callsign,I
- 3) qA... construct. Two possibilities for this:
 - A) "qAc,CallSign" c=packet source , Callsign is user logon call or server alias
 - B) "qAc,Call1,Call2,Call3, etc. Same as above except every server or hub adds the users callsign that sent the packet. The path could get quite long.
- 4) Suggestions I have not heard before?

For loop prevention there are three ways:

Note than none of them can stop RF=>Inet=>RF=>Inet loops 100%.

- 1) As it is now. The duplicate detection system stops loops **.
- 2) A time to live counter in the qAc path element. It Becomes qAcN where N is decremented down from 9 on each hop. Packet is discarded when N=0. You can then determine the number of internet hops every packet as taken.
- 3) If full path tracing as #3 above is implimented the path is scanned for duplicate calls and packet is discarded if packet has passed through the same server twice.

I'm inclined to use #3A path trace and #1 loop prevention.
eg: Add "qAc,Call" to packets without a qAc path element.
Change "Callsign,I" style packets to qAc style.
Let the dup detector stop the loops. Note that the dup detector
does not look at the path info so changing it will not create a
Mic_E style multiple packet dup mess. Also see Note2 below.

Example:

Original packet from WA4DSY igate as received at an aprsd server:

N4ZZ>APRS,WIDE:Data

Server outputs packet:

N4ZZ>APRS,WIDE,qAC,WA4DSY*:Data

Packet then preceeds through other servers unchanged.

Original packet from Hub/Server first.aprs.net as received at an aprsd server.

N4ZZ>APRS,WIDE:Data

Server outputs packet:

N4ZZ>APRS,WIDE,qAS,first2C9*:Data

Note also that packets already containing the qAc path element
are not changed.

Note:

The qAc path element is open to future expansion by adding
characters.

Note2:

One other possibility is to also do a full trace (#3B) only on
beacon, ID or Status packets. Query a station and get
back status and full internet path trace.

Brief explanation of the qAc construct:

q is a unique character not ever present in a TNC path from RF.
A is the protocol of the data payload, in this case A=APRS.
The 3rd character indicates the local source of the packet as follows:

C †validated logged on Client user that didn't add his own q
X †un-validated client
R †from RF (TNC)
I †Internal
S †Internet aprs server (old one that didn't put in it's own q)
U †the UDP port on aprsd
Z †Zero hops. Do not repeat this packet. (::USERLIST etc should set this)
3 †3rd party packet converted to normal that has never been Igated TO RF.

Note: The last one "3" is a hack and needs a different solution.

** Currently aprsd and Win/MacAPRS handle 3rd party packets differently.
Aprsd stops them between the TNC recv and the Internet send. If it sees a 3rd party packet on the Internet that it thinks should go to RF it adds yet another 3rd party header and puts it in RF. In other words, just like any other packet.

Win/MacAPRS/XASTIR do not stop 3rd party packets from entering the Internet from RF.

As a result, I believe loops of mutating packets can happen.
RF=>WinAPRS=>Inet=>aprsd=>RF=>WinAPRS---->etc.

Aprsd 215b2 will not contribute to this problem.
The 3rd party handling has been totally reworked.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jun 28 13:44:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA16632

for <lyris.aprsspec@tapr.org>; Fri, 28 Jun 2002 13:44:32 -0500 (CDT)
Subject: [aprsspec] RE: IS path trace and qAC in aprsd
Date: Fri, 28 Jun 2002 13:44:24 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Message-ID: <LYR11589-87133-2002.06.28-14.22.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] IS path trace and qAC in aprsd
Thread-Index: AcIey/ThdEqJMi9nTr28huTroUAn8gABZVDQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F1B@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA16632

While I think further loop prevention should be done, I think this should be the result of a working group architecture as opposed to an ad-hoc approach. The current APRS-IS architecture is a 2 to 3 tier architecture with all traffic traveling through the core servers.

With the changes you have made to aprsD (eliminating third-party packets appearing on the Internet side) and javAPRSSrvr also eliminating third-party packets, the opportunity for looping has been greatly reduced. Even with older client software possibly injecting third-party packets, they will be stripped from the APRS-IS stream by the server that they are connected to.

Your method of passing the "meat" of non-TCPIP third-party packets to the Internet is excellent and should be implemented by all IGate software (passing the packet without the RF header).

The qAc method of identification is good and should be considered by the APRS-IS working group (if one gets created). My recommendation, based on other comments made on this SIG, is to append callsign,I* to a packet getting gated from RF. Then, if an IGate on the other end wants to gate it back out, it replaces the I* with callsign,TCPIP* in the third-party header. Of course, currently, all IGates truncate the entire path on

gating to RF and replace the path with callsign,TCPIP*.

I have had family issues that required my full attention this month so I have been unable to move forward on the "current" APRS-IS specification. However, I will begin compiling this during the month of July.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Dale Heatherington [mailto:dale@wa4dsy.net]

> Posted At: Friday, June 28, 2002 12:48 PM

> Subject: [aprsspec] IS path trace and qAC in aprsd

>

> I do not want to simply code and release it. I want some feedback.

>

> I have several choices for path tracing.

>

> 1) No path tracing. Leave the path as is.

>

> 2) UI-View style. Callsign,I

>

> 3) qA... construct. Two possibilities for this:

> A) "qAc,CallSign" c=packet source , Callsign is user

> logon call or server alias

> B) "qAc,Call1,Call2,Call3, etc. Same as above except every

> server or hub adds the

> users callsign that sent the packet. The path could get
> quite long.

>

> 4) Suggestions I have not heard before?

>

> -----

> For loop prevention there are three ways:

> Note than none of them can stop RF=>Inet=>RF=>Inet loops 100%.

>

> 1) As it is now. The duplicate detection system stops loops **.

>

> 2) A time to live counter in the qAc path element. It Becomes

> qAcN where N is decremented down from 9 on each hop. Packet

> is discarded when N=0. You can then determine the number of
> internet hops every packet as taken.

>

> 3) If full path tracing as #3 above is implimented the path

> is scanned for duplicate calls and packet is discarded if
> packet has passed through the same server twice.
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jun 30 13:39:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA20238
for <lyris.aprsspec@tapr.org>; Sun, 30 Jun 2002 13:39:31 -0500 (CDT)
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs
Date: Sun, 30 Jun 2002 10:48:31 -0700 (PDT)
From: "Curt Mills, WE7U" <archer@eskimo.com>
X-Sender: archer@gatekeeper.we7u.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "Mills, Curt, WE7U" <archer@eskimo.com>,
"Curt, WE7U Mills" <hacker@tc.fluke.com>
Subject: [aprsspec] Re: IS path trace and qAC in aprsd
Message-ID: <LYR11589-87426-2002.06.30-14.16.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
X-Message-Id: <Pine.LNX.4.04.10206301039430.6621-100000@gatekeeper.we7u.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 28 Jun 2002 13:47:25, Dale Heatherington said:

> Win/MacAPRS/XASTIR do not stop 3rd party packets from entering the
> Internet from RF.

Ah, but Xastir does prevent this!

If you see 3rd party packets getting Igated RF->Inet from Xastir
1.1.2 or later I'd like to know about it. I don't know exactly when
the code was written or patched to prevent this, but it's been in
there for a while.

Perhaps you've seen stations running old versions of Xastir doing this? There are still people running 0.3.6 from various Linux distribution CD's. Perhaps 1.0.0 might allow these packets through as well.

If you see Xastir stations doing this, encourage them to upgrade.

Curt, WE7U. archer@eskimo.com

<http://www.eskimo.com/~archer>

Lotto: A tax on people who are bad at math. - unknown

Windows: Microsoft's tax on computer illiterates. - WE7U.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From mariamaaa20002000@yahoo.co.uk Mon Jul 1 11:07:01 2002
Received: from mx2.mail.twtelecom.net (mx2.mail.twtelecom.net [168.215.210.54])
by tapr.org (8.9.3/8.9.3/1.13) with ESMTP id LAA01989
for <lyris.aprsspec@tapr.org>; Mon, 1 Jul 2002 11:07:01 -0500 (CDT)
Received: from yahoo.co.uk (unknown [216.139.169.131])
by mx2.mail.twtelecom.net (Postfix) with SMTP id CAD7BA80A
for <lyris.aprsspec@tapr.org>; Mon, 1 Jul 2002 11:06:09 -0500 (CDT)
From: "Prince Jokun P. Otondo" <mariamaaa20002000@yahoo.co.uk>
To: <lyris.aprsspec@tapr.org>
Subject: URGENT RESPONSE
Sender: "Prince Jokun P. Otondo" <mariamaaa20002000@yahoo.co.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Date: Mon, 1 Jul 2002 10:54:46 +0100
Reply-To: "Prince Jokun P. Otondo" <jpotondo@rediffmail.com>
X-Priority: 1 (Highest)
Content-Transfer-Encoding: 8bit
Message-Id: <20020701160609.CAD7BA80A@mx2.mail.twtelecom.net>

Prince Jokun P. Otonto
NNPC Nigeria

ATTENTION: The President/Managing Director

I am the Director of maintenance for the Nigeria National Petroleum Corporation (NNPC). I have been mandated by my colleagues to look for a foreign organization that would be able to provide an account into which can be transferred the sum of (twenty million five hundred thousand us dollars) \$20,500,000.00.

The funds are the excess of an over-inflated contract that was done for the NNPC and are still floating in NNPC's account with the Central Bank of Nigeria. These funds need to be transferred to a beneficiaries account hence this proposal.

We have agreed that for providing an account you will receive 25% of the funds. For us to proceed we need the following details to process the transfer of the funds:

NAME & ADDRESS OF YOUR BANK
ACCOUNT NAME
ACCOUNT NUMBER

With the above information it will take 7 working days to transfer the funds to your account.

As we are senior officials in our organization we have arranged this deal to be hitch-free.

We also wish that you would in turn keep this business confidential.

Please reply by providing us your private e-mail address, fax and phone numbers for easy and confidential communication.

Please reply at jpotondo@rediffmail.com

Looking forward to doing business with you.

Yours sincerely

Prince Jokun P. Otondo

From bounce-aprsspec-11589@lists.tappr.org Tue Jul 2 06:29:57 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id GAA11968
for <lyris.aprsspec@tappr.org>; Tue, 2 Jul 2002 06:29:55 -0500 (CDT)
Message-ID: <LYR11589-87705-2002.07.02-07.07.29--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 02 Jul 2002 07:28:51 -0400
From: "E. Tupis" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Network Personality Bit Encoding
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "E. Tupis" <w2ev@rochester.rr.com>
X-Message-Id: <3D218E73.D629D12@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The question: How do I know which stations are capable of digipeating on what aliases?

The answer: it is impossible to know without a careful analysis of the data that they see and watching what they do with it...and knowing the 'personality' of each digipeating alias.

Bob has suggested the use of an overlay character on each digipeater, in the hopes of identifying it's "Network Personality". I would like to expand on that concept a bit, before it becomes too entrenched to modify (should the APRS community agree that what I'm proposing has merit).

First, identify all of the possible personalities that could be exhibited. In the APRS world, I think they are as follows:

RELAY Digipeater
WIDE Digipeater
TRACE Digipeater
WIDEn-N Digipeater
TRACEn-N Digipeater
GATE (connects two RF-based APRS frequencies ie 2m<->30m)
IGATE (connects APRS to the Internet Stream)

Assumption: Non home-based Digi's are rarely (if ever) also GATE's and IGates. If this is true, then remote digis would continue to use the green star icon, while GATE and IGATE stations would use another icon entirely.

Provided that I haven't missed one or two, this is a perfect example of where 5-bit encoding can work wonders in an overlay.

twTWR R=Relay,W=Wide,T=Trace,w=Widen-N,t=Tracen-N,
12345 G=Gate,I=IGate and 12345 is the Bit-position of
a single byte...the overlay character. (!)

Using such a system, one can easily identify all digipeating aliases that any given digipeater can respond to!

R,W,T (no n-N) = 00111 binary -or- "7" in BASE36

If you see a green star with a "7" overlayed, you know it is capable of RWT only.

A Kantronics could be setup as 11111 binary -or- 31 decimal -or- "U" in BASE36. Such a digi would show an overlay of "U".

In California, maybe it's 11110 binary (no RELAY) -or- 30 decimal -or- "T" in BASE36. Get it?

Any combination of these 5 digipeating aliases could be displayed for

everyone on the network to see.

This is simply food for further discussion.

Kind regards,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jul 2 09:41:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA22876
for <lyris.aprsspec@tapr.org>; Tue, 2 Jul 2002 09:40:56 -0500 (CDT)
Date: Tue, 2 Jul 2002 10:39:43 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Network Personality Bit Encoding
Message-ID: <LYR11589-87734-2002.07.02-10.18.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207021038370.17214-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Tue, 2 Jul 2002, E. Tupis wrote:

> The question: How do I know which stations are capable of digipeating on
> what aliases?

The present overlay is for rapid human consumption and really is only a
few types with probably these distributions:

N - 80% (some of these are the "I" type)
T - 10%
W - 3%
R - 2% And others being another 5% (guessing only)

Users should all know what these mean. So I do not want to mess with that present system. But I do like your concept for adding in the position comment field. In the early days (before the overlay character) we asked for the words "WIDE" or "RELAY-WIDE" or "TRACE" in the comment field. But with all the options now, that becomes unwieldy. Your suggestion for a summary few bytes has merit.

Bob

On Tue, 2 Jul 2002, E. Tupis wrote:

> The question: How do I know which stations are capable of digipeating on
> what aliases?
>
> The answer: it is impossible to know without a careful analysis of the
> data that they see and watching what they do with it...and knowing the
> 'personality' of each digipeating alias.
>
> Bob has suggested the use of an overlay character on each digipeater, in
> the hopes of identifying it's "Network Personality". I would like to
> expand on that concept a bit, before it becomes too entrenched to modify
> (should the APRS community agree that what I'm proposing has merit).
>
> First, identify all of the possible personalities that could be
> exhibited. In the APRS world, I think they are as follows:
>
> RELAY Digipeater
> WIDE Digipeater
> TRACE Digipeater
> WIDEN-N Digipeater
> TRACEN-N Digipeater
> GATE (connects two RF-based APRS frequencies ie 2m<->30m)
> IGATE (connects APRS to the Internet Stream)
>
> Assumption: Non home-based Digi's are rarely (if ever) also GATE's and
> IGates. If this is true, then remote digis would continue to use the
> green star icon, while GATE and IGATE stations would use another icon.
> Provided that I haven't missed one or two, this is a perfect example of
> where 5-bit encoding can work wonders in an overlay.
>
> twTWR R=Relay,W=Wide,T=Trace,w=Widen-N,t=Tracen-N,
> 12345 G=Gate,I=IGate and 12345 is the Bit-position of

> a single byte...the overlay character. (!)
>
> Using such a system, one can easily identify all digipeating aliases
> that any given digipeater can respond to!
> <snip>
> Any combination of these 5 digipeating aliases could be displayed for
> everyone on the network to see... Simply food for further discussion.

> Kind regards,
> Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 09:25:48 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA28788
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 09:25:47 -0500 (CDT)
Date: Fri, 5 Jul 2002 10:25:33 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Keith Sproul <ksproul@vger.rutgers.edu>,
Mark Sproul <msproul@jove.rutgers.edu>,
Mike Musick <mikemusick@earthlink.net>,
Brent Hildebrand <bhildebrand@earthlink.net>,
Roger Barker <roger@peaksys.co.uk>, "Curt Mills, WE7U" <we7u@mail.com>
Subject: [aprsspec] Re: PHG circles
In-Reply-To: <LYR11586-86455-2002.06.24-11.36.50--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-88155-2002.07.05-10.03.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207051019210.27561-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

AUTHORS:

In my latest release of APRSdos, I have cut the PHG displayed circle radius in HALF to better display the usable range to DIGI's to/from mobiles. This is not an arbitrary choice, but founded on the well established multi-path models for mobiles.

So now by default, users see a more realistic display (the MOBILE display). User may still optionally select the "FIXED" display with one more keystroke, but since this is so unrealistic to the normal and intended uses of APRS as a tactical system, it does not come up first.

I would like to ask all AUTHORS to consider doing the same...

On Mon, 24 Jun 2002, Bob Bruninga wrote:

> Authors... Regarding PHG circles:
>
> I think it is time to re-do how we display PHG circles on APRS maps.
> The present formula is only an approximation and assumes a fixed station
> without mobile multipath.
>
> But Mobiles have multipath and the literature suggests an RMS average of
> about 6 to 10 dB and frequent 20 to 40 dB fades. If we ignore the
> deep and infrequent fades, the 6 dB typical fade translates to a 50%
> reduction in range and 10 dB would be a 33% range compared to fixed
> stations.
>
> Unless someone has a better idea, I would suggest that authors consider a
> dual method of displaying PHG circles separately for how they would appear
> to mobiles and for how they appear to basestations. I'm thinking of using
> the 50% size for mobiles...
>
> Possible display options:
>
> 1) always display both, but in different colors
> 2) Always display the worst case (mobile) circles but have a FIXED station
> option.
> 3) Force a Prompt or selection each time circles are displayed.
>
> I will probably do #2 to keep the map clutter down... and to give the
> conservative answer to the casual observer.. Or always prompt them to
> chose one or the other...
>
> Yes, all of these are crude approximations, but PHG was not intended to be
> a hi-fi terrain propagation model, just a simple indication of the first

> order approximation of range related to HAAT.
>
> Just a suggestion. But whatever we do, we need to do it consistently so
> that users of different software will have the same approximation for
> mobiles. Is 50% the right number to use? Or less? Maybe 40%?
>
> de WB4APR@amsat.org, Bob
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Jul 5 09:48:31 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA29764
for <lyris.aprsspec@tappr.org>; Fri, 5 Jul 2002 09:48:25 -0500 (CDT)
Date: Fri, 05 Jul 2002 09:46:46 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Network Personality Bit Encoding
In-reply-to: <LYR11608-87705-2002.07.02-07.07.29--dvanhorn#cedar.net@lists.tappr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-id: <LYR11589-88160-2002.07.05-10.26.04--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>

List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: David VanHorn <dvanhorn@cedar.net>
X-Message-Id: <5.1.0.14.2.20020705094040.02af4e50@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>
>Any combination of these 5 digipeating aliases could be displayed for
>everyone on the network to see.
>
>This is simply food for further discussion.

Makes sense for me, but..

Shouldn't we be working toward a single setting that works everywhere?

I like it in that it identifies what the digi can do, but my KPC-3 tracker
can't adjust itself to conform to the nearby digi. (without yet another
kludge-box)

If all high level digis at least responded to relay and wide, and would
take WideN-N if only as "wide", then you could set a path of Relay,Wide3-3
and always at least make two hops, anywhere.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 17:15:49 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20983
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 17:15:47 -0500 (CDT)
Message-ID: <LYR11589-88215-2002.07.05-17.53.27--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Ed Blair <EBLAIR@davisnet.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Feedback on the APRS101.PDF documentation
Date: Fri, 5 Jul 2002 15:15:29 -0700
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Ed Blair <EBLAIR@davisnet.com>
X-Message-Id: <074E351605C70643AD7C76300F54BD9773B575@island.davisnet.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I just finished adding an internet APRS weather report feature to Davis Instruments' WeatherLink program.
This feature generates APRS packets from a weather station (and user entered Lat/Lon info) and sends them
via the internet to an APRS server. This feature was added at the request of
and to support NOAA's Citizen
Weather Observer's Program.

I had a couple of comments about the APRS101.PDF documentation file you may
want to consider for the next
time you release a new version.

1. In section 12, page 64. You describe the Positionless Weather Data format
and state that wind speed values are
in MPH. On page 65, for "Complete Weather Reports with Timestamp and
Position" you state that "... the 7-byte Wind
Direction and Wind Speed Data Extension replace the "cccc" and "ssss" fields
...". Back on page 27 the definition of the
"Wind Direction and Wind Speed" data extension says that wind speed should
be expressed in knots. This will result in
inconsistent units (i.e. the current wind given in knots with the wind gust
given in mph). Both findu.com and NOAA want the
wind value in this case to be in MPH.

2. Again on page 64, It is really hard to tell which rain field is supposed
to use the lowercase "p" and which is supposed to
use the uppercase "P". It is possible to choose a different font so that it
is more clear?

3. This software works on Davis' new line of weather stations, the Vantage
Pro. I am using "DsVP" as the Weather Unit Type
and am submitting it as a candidate for the official list.

4. What should I do about the APRS Software Type field? I know that there is
at least one other software package in the same niche
as mine (i.e. generating APRS weather packets for internet distribution, but

only as a small part of a general weather display
and data management program). I am using a "." (period) for now.

Thank you for your consideration
Edward Blair.

Edward Blair Davis Instruments
Software Engineer 3465 Diablo Ave
eblair@davisnet.com Hayward, CA 94545
(510) 732-9229

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 19:29:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA25921
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 19:29:29 -0500 (CDT)
Message-ID: <LYR11589-88228-2002.07.05-20.07.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Ed Blair <EBLAIR@davisnet.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
Date: Fri, 5 Jul 2002 17:29:13 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Ed Blair <EBLAIR@davisnet.com>
X-Message-Id: <074E351605C70643AD7C76300F54BD9773B57D@island.davisnet.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Findu:
Compare <http://www.findu.com/cgi-bin/wxpage.cgi?CW0538>

Where it says: Wind from 268 degrees @ 8 MPH

and <http://www.findu.com/cgi-bin/find.cgi?CW0538>

where the raw packet is

CW0538>APRS,TCPXX*:0052343z3738.17N/12207.50W_268/008g...t062L637P000h68b10125.DsVP

Clearly findu did not convert the wind speed of "/008" from knots to MPH but took the value as is in MPH. (8 knots = 9.2 MPH which would round to 9 MPH)

NOAA:

My contact is Russ Chadwick at the Forecast Systems Laboratory in Boulder Colorado. When I asked him this same question he said:

"All wind speeds should be in miles per hour. While the APRS IS specification says knots, note that relates only to velocities of objects. Elsewhere in the spec, it says that wind speeds should be in mph and that is what we expect."

I don't know exactly where he is referring to, but the positionless weather record specifically says MPH. And near the beginning there is a general warning that different wind units are used in different contexts.

My point is that it would not make sense for a weather report to have the current wind speed in knots and the wind gust in MPH. On the other hand it is not good to use knots for the wind speed in the data extension EXCEPT when the packet is a weather packet.

I am not clear about why the complete weather packet can't just report the timestamp and location without a data extension, and then use the positionless weather format (i.e. "c268s008") to report the wind direction and speed in MPH.

Edward Blair

Edward Blair Davis Instruments
Software Engineer 3465 Diablo Ave
eblair@davisnet.com Hayward, CA 94545
(510) 732-9229

-----Original Message-----

From: Ray McKnight - WB3ABN [mailto:shortsheep@worldnet.att.net]
Sent: Friday, July 05, 2002 4:47 PM
To: 'Ed Blair'
Cc: aprssig@tapr.org
Subject: RE: [aprsspec] Feedback on the APRS101.PDF documentation

Who says "Both findu.com and NOAA want the wind value in this case to be in MPH"? Does the Citizen's Weather Program directly conflict with FMH-1, which in Chapter 5.5.1 clearly states that all wind observations will be reported in KNOTS.

Ray - WB3ABN
Kingston, WA

-----Original Message-----

From: bounce-aprsspec-29216@lists.tapr.org
[mailto:bounce-aprsspec-29216@lists.tapr.org] On Behalf Of Ed Blair
Sent: Friday, July 05, 2002 15:15
To: APRS Spec Discussion List
Subject: [aprsspec] Feedback on the APRS101.PDF documentation

...

1. In section 12, page 64. You describe the Positionless Weather Data format and state that wind speed values are in MPH. On page 65, for "Complete Weather Reports with Timestamp and Position" you state that "... the 7-byte Wind Direction and Wind Speed Data Extension replace the "cccc" and "ssss" fields ...". Back on page 27 the definition of the "Wind Direction and Wind Speed" data extension says that wind speed should be expressed in knots. This will result in inconsistent units (i.e. the current wind given in knots with the wind gust given in mph). Both findu.com and NOAA want the wind value in this case to be in MPH.

...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 20:04:01 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA26531
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 20:03:53 -0500 (CDT)
Message-ID: <LYR11589-88233-2002.07.05-20.41.35--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 05 Jul 2002 21:01:21 -0400
From: "E. Tupis" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Encoding a "network personality"
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "E. Tupis" <w2ev@rochester.rr.com>
X-Message-Id: <3D264161.C61D2BF@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Sorry for the change in subject title...it's a loooong story. :o)

> Any combination of these 5 digipeating aliases could
> be displayed for everyone on the network to see.
>
>This is simply food for further discussion.

Makes sense for me, but..

Shouldn't we be working toward a single setting that works everywhere?

I like it in that it identifies what the digi can do, but my KPC-3
tracker can't adjust itself to conform to the nearby digi. (without yet
another kludge-box)

These are two different issues. One is being able to see, at a glance,
what the network is like within your range. The second is assuring
operational ubiquity.

By landing on a common icon-overlay scheme, one can tell...at a glance
many useful things:

- o your best path to get to a WIDEn-N digi (IF there are
any in the area)
- o your best path to get to an HF gate (IF there are any)
- o your best path to get to an IGate (ditto above)

With a very small amount of sleuthing, you can find out who is using
that archaic non call-substituting ROM.

There hasn't been alot of comment on this proposal, other than from Bob,
but I honestly hope that it doesn't die. It is one of the biggest needs
of the general APRS service (besides someone writing UnIversal Engine,
that is <smile>). It is built-in to the BEACONet protocol (and

implemented using the bit-encoding method previously described), but it's alot like SSID routing (in the protocol, but not implemented yet). :o)

The method of getting there is unimportant...the need to get there is universal. Bob's proposal, though 'less specific' than the bit-level encoding scheme that I proposed, is certainly easier for 'human decoding' (which is a good thing).

Your issue of re-establishing "path ubiquity" is quite important, as well...but a different issue. Other than having some digi's out there that "can't" process WIDEn-N, I'm not certain I yet understand why this can't be accomplished (a continent-wide RELAY,WIDE3-3 ability). Even then...I have some thoughts as to what to do with those old TNC's, too...but before I share that, I'd like to know how many we're talking about. :o)

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 20:08:21 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA26848
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 20:08:16 -0500 (CDT)
Date: Fri, 05 Jul 2002 20:08:05 -0500
From: David VanHorn <dvanhorn@cedar.net>
Subject: [aprsspec] Re: Encoding a "network personality"
In-reply-to: <LYR11608-88233-2002.07.05-20.41.35--dvanhorn#cedar.net@lists.tapr.org>
X-Sender: dvanhorn@mail.cedar.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-id: <LYR11589-88234-2002.07.05-20.46.02--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: David VanHorn <dvanhorn@cedar.net>
X-Message-Id: <5.1.0.14.2.20020705200701.02a0f1d8@mail.cedar.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>These are two different issues. One is being able to see, at a glance,
>what the network is like within your range. The second is assuring
>operational ubiquity.

I agree. I guess I'm just worried that the ability to work around the old digis will turn into a crutch for keeping them. I certainly agree with your method.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 5 20:54:46 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA29555
for <lyris.aprsspec@tapr.org>; Fri, 5 Jul 2002 20:54:43 -0500 (CDT)
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Date: Fri, 5 Jul 2002 20:54:32 -0500
Message-ID: <LYR11589-88240-2002.07.05-21.32.28--
lyris.aprsspec@tapr.org@lists.tapr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] RE: Feedback on the APRS101.PDF documentation
Thread-Index: AcIkhEXoR+VwfD1GS/ODLrhFjqBrpgACq3yA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F26@ame-main.ametx.com>

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA29555

The APRS spec actually is pretty specific, but you need to look in two places. Russ is actually incorrect in his interpretation per discussions on this subject on a couple of years ago. The positionless weather packet has all speeds in MPH (as discussed already).

The "complete" weather packet makes use of an APRS data extension (chapter 7). As stated in chapter 7, the SPD portion of both the "Course and Speed" and "Wind Direction and Wind Speed" are in knots. This was done (I am assuming here) so an APRS decoder only needs to know one method for decoding the data extension since there is no differentiator between the two extensions (other than the icon symbol found elsewhere in the packet).

Findu should be converting the speed, as well.

Hope this clarifies things a little.

73,

Pete Loveall AE5PL

<http://www.ae5pl.net>

<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Ed Blair [<mailto:EBLAIR@davisnet.com>]

> Posted At: Friday, July 05, 2002 7:30 PM

> Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation

>

> Clearly findu did not convert the wind speed of "/008" from

> knots to MPH but took the value as is in MPH. (8 knots =

> 9.2 MPH which would round to 9 MPH)

>

> "All wind speeds should be in miles per hour. While the APRS IS

> specification says knots, note that relates only to velocities

> of objects. Elsewhere in the spec, it says that wind speeds

> should be in mph and that is what we expect."

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jul 6 15:37:09 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA24068
for <lyris.aprsspec@tappr.org>; Sat, 6 Jul 2002 15:37:05 -0500 (CDT)
Date: Sat, 6 Jul 2002 16:36:54 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Feedback on the APRS101.PDF documentation
In-Reply-To: <LYR11586-88215-2002.07.05-17.53.27--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-88314-2002.07.06-16.14.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207061635360.6460-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 5 Jul 2002, Ed Blair wrote:

> I had a couple of comments about the APRS101.PDF documentation file you may
> want to consider for the next time you release a new version.

Good data, thanks.

> I am using "DsVP" as the Weather Unit Type and am submitting it as a
> candidate for the official list.

Sounds fine to me. Go for it...

> 4. What should I do about the APRS Software Type field? I know that there is
> at least one other software package in the same niche
> as mine (i.e. generating APRS weather packets for internet distribution, but
> only as a small part of a general weather display
> and data management program). I am using a "." (period) for now.

Is it different than the existing WX fields? Show us the format.

Thanks

Bob

>

> Thank you for your consideration
> Edward Blair.
>
> -----
> Edward Blair Davis Instruments
> Software Engineer 3465 Diablo Ave
> eblair@davisnet.com Hayward, CA 94545
> (510) 732-9229
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Sat Jul 6 15:49:49 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id PAA24676
for <lyris.aprsspec@tapir.org>; Sat, 6 Jul 2002 15:49:43 -0500 (CDT)
Date: Sat, 6 Jul 2002 16:49:27 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
In-Reply-To: <LYR11586-88240-2002.07.05-21.32.28--
bruninga#nadm.navy.mil@lists.tapir.org>
Message-ID: <LYR11589-88322-2002.07.06-16.27.29--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207061645370.6460-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 5 Jul 2002, AE5PL Lists wrote:

> The "complete" weather packet makes use of an APRS data extension
> (chapter 7). As stated in chapter 7, the SPD portion of both the
> "Course and Speed" and "Wind Direction and Wind Speed" are in knots.
> This was done (I am assuming here) so an APRS decoder only needs to know
> one method for decoding the data extension since there is no
> differentiator between the two extensions (other than the icon symbol
> found elsewhere in the packet).

Actually, I would say the SPEC is in error here. The complete WX packet just conveniently uses the same BYTES for WIND DIR and SPEED as it would normally use for COURSE and SPEED in an object or position report. But the definition of what that byte means is "Knots" if it is an object or position, and MPH if it is a wx report.

At least That's the way it is supposed to be.

de WB4APR, Bob

> > Findu should be
converting the speed, as well. > > Hope this clarifies things a little.
>
> 73,
>
> Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>
> > -----Original Message-----
> > From: Ed Blair [<mailto:EBLAIR@davisnet.com>]
> > Posted At: Friday, July 05, 2002 7:30 PM
> > Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
> >
> > Clearly findu did not convert the wind speed of "/008" from
> > knots to MPH but took the value as is in MPH. (8 knots =
> > 9.2 MPH which would round to 9 MPH)

> >
> > "All wind speeds should be in miles per hour. While the APRS IS
> > specification says knots, note that relates only to velocities
> > of objects. Elsewhere in the spec, it says that wind speeds
> > should be in mph and that is what we expect."
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jul 6 17:02:30 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA27773
for <lyris.aprsspec@tappr.org>; Sat, 6 Jul 2002 17:02:23 -0500 (CDT)
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Date: Sat, 6 Jul 2002 17:02:13 -0500
Message-ID: <LYR11589-88335-2002.07.06-17.40.10--
lyris.aprsspec#tappr.org@lists.tappr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] RE: Feedback on the APRS101.PDF documentation
Thread-Index: AcILLrUzky95dFJUQHmOb6lDv4+t8AACTCVA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC048F27@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id RAA27773

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Saturday, July 06, 2002 3:50 PM
> Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
>
> Actually, I would say the SPEC is in error here. The
> complete WX packet
> just conveniently uses the same BYTES for WIND DIR and SPEED
> as it would
> normally use for COURSE and SPEED in an object or position
> report. But
> the definition of what that byte means is "Knots" if it is an
> object or
> position, and MPH if it is a wx report.
>
> At least That's the way it is supposed to be.

Another reason for the working group to assemble an updated specification (possibly create an online addendum that the WG can keep up-to-date and where developers such as myself can go so we won't have to guess if the spec is correct or not). When I asked these same questions 2 years ago, I was told to use knots for a complete weather report and mph for the positionless report.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jul 7 08:58:33 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA15599
for <lyris.aprsspec@tapr.org>; Sun, 7 Jul 2002 08:58:30 -0500 (CDT)
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Date: Sun, 7 Jul 2002 08:58:21 -0500
Message-ID: <LYR11589-88418-2002.07.07-09.36.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.5762.3
Thread-Topic: [aprsspec] RE: Feedback on the APRS101.PDF documentation
Thread-Index: AcILLrUzky95dFJUQHmOb6lDv4+t8AACTCVAACF3jZA=
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CC21@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA15599

Also, while you are creating a specification addendum, note that the section on compressed packets also says that speed is in knots. I would guess, from your statement about the spec being in error about the data extension for weather reports that this is also in error regarding complete weather reports using compressed lat/lon format.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> > -----Original Message-----
> > From: Bob Bruninga [mailto:bruninga@usna.edu]
> > Posted At: Saturday, July 06, 2002 3:50 PM
> > Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
> >
> > Actually, I would say the SPEC is in error here. The
> > complete WX packet
> > just conveniently uses the same BYTES for WIND DIR and SPEED
> > as it would

> > normally use for COURSE and SPEED in an object or position
> > report. But
> > the definition of what that byte means is "Knots" if it is an
> > object or
> > position, and MPH if it is a wx report.
> >
> > At least That's the way it is supposed to be.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jul 7 16:23:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA07371
for <lyris.aprsspec@tapr.org>; Sun, 7 Jul 2002 16:23:25 -0500 (CDT)
Date: Sun, 7 Jul 2002 17:23:06 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation
In-Reply-To: <LYR11586-88418-2002.07.07-09.36.20--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-88456-2002.07.07-17.01.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207071722391.16133-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 7 Jul 2002, AE5PL Lists wrote:

> Also, while you are creating a specification addendum, note that the
> section on compressed packets also says that speed is in knots. I would
> guess, from your statement about the spec being in error about the data
> extension for weather reports that this is also in error regarding
> complete weather reports using compressed lat/lon format.

Yes, back when we did the WX stuff, we were told that WX should always be in MPH...

bob

>

> 73,

>

> Pete Loveall AE5PL

> <http://www.ae5pl.net>

> <mailto:pete@ae5pl.net>

>

> > > -----Original Message-----

> > > From: Bob Bruninga [<mailto:bruninga@usna.edu>]

> > > Posted At: Saturday, July 06, 2002 3:50 PM

> > > Subject: [aprsspec] RE: Feedback on the APRS101.PDF documentation

> > >

> > > Actually, I would say the SPEC is in error here. The

> > > complete WX packet

> > > just conveniently uses the same BYTES for WIND DIR and SPEED

> > > as it would

> > > normally use for COURSE and SPEED in an object or position

> > > report. But

> > > the definition of what that byte means is "Knots" if it is an

> > > object or

> > > positoin, and MPH if it is a wx report.

> > >

> > > At least Thats the way it is supposed to be.

>

> ---

> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>

ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>

CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>

APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>

APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>

MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jul 10 13:41:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA08861
for <lyris.aprsspec@tapr.org>; Wed, 10 Jul 2002 13:41:15 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] New beta of aprsd 215 available
Date: Wed, 10 Jul 2002 14:40:10 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-88825-2002.07.10-14.18.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0207101440100F.05031@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

A new public beta of aprsd 2.1.5 is up on wa4dsy.net.

Download it at:
<http://www.wa4dsy.net/Files/aprsd215b2.tgz>

Documentation is here:
<http://www.wa4dsy.net/aprs/aprsdDOC.html>

REVISIONS

2.1.5

Note: Some of these bugs were caught by the new compiler in RedHat 7.

1) Fixed charQueue.write statement in serialp.cpp. Now it passes the char as an integer in the cmd field.

It used to pass the char as a char pointer. This worked but was confusing.

2) Fixed charQueue.read() statement in aprsd.cpp. Now it reads the int cmd and

then converts it to
a char. (see #1 above)

3) aprspass.cpp: Added to the #includes list "stdlib.h" so it now compiles on RedHat 7

4) added a missing pthread_mutex_unlock() in SendFiletoClient(). Possible cause of lockups!

5) Fixed several instances where I had incorrectly used strncat. strcat is now used instead.
Checked for buffer overflows.

6) Changed the way the number of connected clients is determined. Now the sessions[] array is searched and active connections are counted each time this value is required. The previous code had a counter "ConnectedClients" which sometimes got out of sync with reality.

7) Fixed many instances where ostream objects could create buffers without terminating NULLs
if filled beyond capacity. (no overflow, just an unterminated string)

8) Fixed bug in Mic-E converter that rejected latitude decimal minutes greater than .59 .

9) Added filter code in serialp.cpp to prevent ?IGATE? and ?APRSD? queries from being
igated from RF to the internet where dozens of replies could be generated.
APRSD still
responds to the RF station but doesn't pass the query to any other igates.

10) Applied patches from Steve Price (KG4PGU) to make code more portable.
Didn't change to gethostbyname2_r() though.

11) Release a9: Worked on code that used gethostbyname2_r(). Removed mutex locks. Added a test for return value == 0 in addition to hostinfo pointer not being NULL. Will this fix the crashing problem?
Answer, after a 500 hour test: NO!

12) Release a10: Replaced gethostbyname2_r with gethostbyname_r.

13) Added filter code in aprsString to reject "EH?" and "cmd:" packets.

14) Added "try" "catch" blocks to aprsString::AEAtoTAPR, split() and aprsString::changePath().

Now exceptions there will be caught instead of segfaulting.

Note there was no solid evidence these functions ever caused a segfault.
Safety first.

15) 5-19-02 Removed directed query responses. Fixed general query "?IGATE?" response to comply with
APRS spec 1.0.

16) Stopped sending System Status messages on Link port (1313), Message Port (1314)

and to Hubs you have connected to. You will no longer get:

"aprsdATL>JAVA::javaMSG :Atlanta_GA Linux APRS Server: 127.0.0.1 connected 2 users online."

and other such messages on these ports. The BEACON packet will still go to all ports

except the 1314 message-only port.

17) Added support for NOGATE in path. If a packet from any source has NOGATE or RFONLY in the

path it will be killed and not go onto the Internet. However, they will still appear

on the raw TNC port (14580) for network debugging.

18) The server now adds information to the end of the PATH indicating the source of each packet. This is the qAc,CallSign construct.

See server docs for more details.

19) In the code that creates connections to other hubs (Server command) I added code to check that the sysop of THIS hub provided a valid passcode. If not valid

no data will be sent outbound.

20) Added error checking in thirdPartyReformat(). It now returns an error if packet wasn't valid AX25 or was already in 3rd party format.

21) Fixed problems with 3rd party packet handling.

Now it works this way:

A) Third party packets that have TCPIP in the 3rd party header are rejected.

B) Third party packets that don't have TCPIP are converted to normal format and put on the internet stream.

22) Restructured the aprsd.cpp file into three files. All the aprs server thread code is now in servers.cpp. The http server is in httpserver.cpp.

Also cleaned up a lot of sloppy usage of extern declarations.

All externs are now in include files.

- 22) Added signal handler for SIGINT to allow graceful shutdown when running as a daemon. Issuing a "killall -INT aprsd" command properly loads RESTORE.TNC into the tnc and stops aprsd. Also, "service aprsd.init stop" will properly shutdown aprsd.
- 23) Added new keyword "Server" to aprsd.conf file.
It replaces the old "Igate" command (although Igate is still honored).
A command such as "server first.aprs.net 23 hub-sr" defines the connection to first.aprs.net as a send/receive hub connection. The user passcode is supplied with another keyword "pass". See aprsd.conf docs for details.
- 24) Added a new class of port. OmniPort defaults to 14600 and allows the USER to control which data streams he wants via messages or plain ascii commands.
- 25) Added a new page of data to the html status page. Clicking on the users port number opens port filter status in a new window. There you can observe which streams each user is being sent. This became important because of the new OmniPort and its user definable streams.
- 26) Added bandwidth controls. Sysop may now specify the maximum allowed server load in bytes/sec. New users are rejected when the limit would be exceeded and the latest high bandwidth users are disconnected if the load increases beyond the specified limit. Keyword is "MaxLoad" in aprsd.conf .
- 27) TNC sysop mode can only be accessed from the new TNC Sysop Port 14500.
Aprsd will now automatically put your telnet client into character-at-a-time mode for better operation with the TNC command line.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Jul 10 19:12:37 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA24789
for <lyris.aprsspec@tappr.org>; Wed, 10 Jul 2002 19:12:32 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: [aprssig] [lyrRe: New beta of aprsd 215 available
Date: Wed, 10 Jul 2002 20:11:34 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR15266-88833-2002.07.10-16.03.28--aprs#wa4dsy.net@lists.tappr.org>
In-Reply-To: <LYR15266-88833-2002.07.10-16.03.28--aprs#wa4dsy.net@lists.tappr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-88847-2002.07.10-19.49.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <0207102011340N.05031@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

After receiving some feedback about aprsd215b2 and
discovering and correcting some minor C++ syntax problems
caught by other compilers I have released another beta.
If beta 2 did not compile for you try this one.

<http://www.wa4dsy.net/Files/aprsd215b3.tgz>

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Jul 11 20:06:29 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA08485
for <lyris.aprsspec@tappr.org>; Thu, 11 Jul 2002 20:06:19 -0500 (CDT)
Message-ID: <LYR11589-88973-2002.07.11-20.44.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-EM-APIVersion: 2, 0, 0, 4
X-Priority: 3 (Normal)
From: "" <cbertaut@megapipeline.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Varicoded Message, Bulletin, Announce Proposal
Date: Thu, 11 Jul 2002 21:03:15 -0400
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "" <cbertaut@megapipeline.net>
X-Message-Id: <3c7a906186a640d5a9b88cbcb9ff1606>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id UAA08485

Has consideration been given to creating a Varicoded message format in APRS?
Given that APRS is designed as a "tactical geographical system," the current
Message data type seems to risk channel overloading by limiting Messages and
Bulletins and Announcements to 67 characters per APRS packet. Users must choose
between possibly excessive abbreviation of free-form information, or sending
multiple packets to convey information that the highly compressed position, WX,
etc. data formats do not cover.

As a possible means of implementation of Varicoded text transmission, could one
of the presently unused Data Type Identifiers like: "^" or "\" be used to
indicate text Varicoded along the lines of Peter Martinez's (G3PLX) PSK31
alphabet? Any version of APRS that didn't recognize the Data Type Identifier
would just fail to display the transmitted text, but Varicode-enabled APRS
software packages would allow their users to send up to twice as much free-form
text in a single packet.

I await your replies swathed in Nomex.

73 de KU4FT

C

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 12 10:26:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA19782
for <lyris.aprsspec@tapr.org>; Fri, 12 Jul 2002 10:26:48 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] aprsd215 beta 4 available
Date: Fri, 12 Jul 2002 11:25:59 -0400
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Message-Id: <LYR11589-89040-2002.07.12-11.04.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0207121125590U.05031@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

aprsd 2.1.5 beta 4 can be downloaded here:
<http://www.wa4dsy.net/Files/aprsd215b4.tgz>

This version compiles with the new GNU C 3.1 compiler.
It also still compiles with 2.95.

I also made doing Mic-E conversions more difficult.
The sysop must not only set "ConvertMicE yes" in the
aprsd.conf file but also change "#define CONVERT_MIC_E FALSE"
to "TRUE" in constant.c and recompile.
I added a new status field on the port 14501 html status
page "Mic-E Conversions YES/NO".

So far there have not been any reports of problems with
beta 3. If beta 4 does not generate any significant

negative reports I'll release aprsd 215.

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 12 19:59:59 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA20105
for <lyris.aprsspec@tapr.org>; Fri, 12 Jul 2002 19:59:53 -0500 (CDT)
Message-ID: <LYR11589-89102-2002.07.12-20.37.57--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-EM-APIVersion: 2, 0, 0, 4
X-Priority: 3 (Normal)
From: "" <cbertaut@megapipe.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Varicoded Message, Bulletin, Announce Proposal
Date: Fri, 12 Jul 2002 20:57:07 -0400
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "" <cbertaut@megapipe.net>
X-Message-Id: <cf1a138dabdf4c30985766be33640c62>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA20105

Let me flesh out my idea a bit further. I am proposing a new
Message/Bulletin/Announcement Data Type Identifier - let's say "\" to indicate
Varicoded Messages, etc. The max. size is still 67 bytes, so more characters
would generally be available for messages given the usual distribution of

characters in message text. I suggest the use of G3PLZ's varicode alphabet, which would be interpreted by enabled APRS clients just like ASCII, since lookup tables are used for either ASCII or a Varicode to translate binary strings into text. The legacy message type, indicated by a DTI of ":" would remain in use to permit messaging to older client types. As a matter of convention, NOT specification, Bulletins and Announcements should not be Varicoded until Varicode-enabled APRS clients are the norm. G3PLZ's Varicode alphabet seems like a good fit because it was developed from character frequencies in English, not QSOs. Much of what is passed in a QSO is already encoded elsewhere in an APRS packet - e.g., callsigns, QTH, WX, etc. Varicoding messages could enhance the tactical utility of APRS by permitting longer free-form messages within single packets, which would help prevent channel congestio

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 12 20:40:16 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA21025
for <lyris.aprsspec@tapr.org>; Fri, 12 Jul 2002 20:40:16 -0500 (CDT)
Message-ID: <LYR11589-89106-2002.07.12-21.18.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Varicoded Message, Bulletin, Announce Proposal
Date: Fri, 12 Jul 2002 20:39:59 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C229E4.4B12C9C0.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Questions:

On Friday, July 12, 2002 19:57, cbertaut@megapipe.net
[SMTP:cbertaut@megapipe.net] wrote:
> Let me flesh out my idea a bit further. I am proposing a new

> Message/Bulletin/Announcement Data Type Identifier - let's say "\" to indicate
> Varicoded Messages, etc. The max. size is still 67 bytes, so more characters
> would generally be available for messages given the usual distribution of

> characters in message text. I suggest the use of G3PLZ's varicode alphabet, which
> would be interpreted by enabled APRS clients just like ASCII, since lookup tables
> are used for either ASCII or a Varicode to translate binary strings into text.
> The legacy message type, indicated by a DTI of ":" would remain in use to permit
> messaging to older client types. As a matter of convention, NOT specification,
> Bulletins and Announcements should not be Varicoded until Varicode-enabled APRS
> clients are the norm. G3PLZ's Varicode alphabet seems like a good fit because it
> was developed from character frequencies in English, not QSOs. Much of what is
> passed in a QSO is already encoded elsewhere in an APRS packet - e.g., callsigns,
> QTH, WX, etc. Varicoding messages could enhance the tactical utility of APRS by
> permitting longer free-form messages within single packets, which would help
> prevent channel congestio
>

The varicoded payloads will not be decodable by Kenwood D7, D700's and (I think) HamHud etc.

It is also possible that some existing client applications may encounter difficulty when receiving these packets. For example, when any of the varicoded text happens to include character sequences that resemble standard APRS constructs.

Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jul 13 08:48:16 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA26220
for <lyris.aprsspec@tappr.org>; Sat, 13 Jul 2002 08:48:09 -0500 (CDT)
Message-ID: <LYR11589-89182-2002.07.13-09.25.58--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-EM-APIVersion: 2, 0, 0, 4
X-Priority: 3 (Normal)
From: "" <cbertaut@megapipe.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: Varicoded Message, Bulletin, Announce Proposal
Date: Sat, 13 Jul 2002 09:44:40 -0400
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "" <cbertaut@megapipe.net>
X-Message-Id: <612531e1b08349f0863067af8151ae97>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id IAA26220

Some Replies:

de KC9XG:

>The varicoded payloads will not be decodable by Kenwood D7, D700's and (I
>think) HamHud etc.
>It is also possible that some existing client applications may encounter
>difficulty when receiving these packets.

True. The D7, etc. seem to be hard-coded to decode only ASCII messages, etc.
That's why I recommend using a new Data Type Identifier for Varicoded text and
keeping the legacy DTI for ASCII-only recipients. However, if a new DTI is used
for Varicode I thought that incompatible clients would reject text following the
new DTI.

de Wes Johnston:

>The problem with this, ... is that some of those 8bit bytes would be
>non-printable ascii characters. Like MIC-e packets they would get clobbered in
>the internet system.

Isn't protocol translation a function of a gateway server? In any case, I am
trying to wring a bit more use from the severely constrained 1200 bps AFSK
environment most hams use. If we need to fix our gateways to the Internet, that's

a separat

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jul 13 09:43:27 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA28918
for <lyris.aprsspec@tapr.org>; Sat, 13 Jul 2002 09:43:17 -0500 (CDT)
Message-ID: <LYR11589-89187-2002.07.13-10.21.11--
lyris.aprsspec@tapr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: Varicoded Message, Bulletin, Announce Proposal
Date: Sat, 13 Jul 2002 09:42:32 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <01C22A51.9D3E0440.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Saturday, July 13, 2002 08:45, cbertaut@megapipe.net
[SMTP:cbertaut@megapipe.net] wrote:

> Some Replies:

> de KC9XG:

> >The varicoded payloads will not be decodable by Kenwood D7, D700's and
(I

> >think) HamHud etc.

> >It is also possible that some existing client applications may encounter
> >difficulty when receiving these packets.

> True. The D7, etc. seem to be hard-coded to decode only ASCII messages,
etc.

> That's why I recommend using a new Data Type Identifier for Varicoded text and
> keeping the legacy DTI for ASCII-only recipients. However, if a new DTI is used
> for Varicode I thought that incompatible clients would reject text following the
> new DTI.

Some clients will look for APRS constructs in a payload regardless of the DTI.

> de Wes Johnston:
> >The problem with this, ... is that some of those 8bit bytes would be
> >non-printable ascii characters. Like MIC-e packets they would get clobbered in
> >the internet system.

The mangling of 8 bit characters by TNC's, IGATEs and servers takes several forms. An 8 bit char may be deleted entirely, replaced with a space, or be converted to 7 bit. It is quite common to see the original raw Mic-E packet and one or more of the mangled packets on the IS. This mangling also affects messages in languages that use 8 bit characters (Nordic etc).

The APRS IS and all client applications expect that a packet will be terminated with a carriage return or carriage return and line feed. Not sure if it is possible for a carriage return to appear in the middle of a varicoded string. Perhaps there is some method to preclude this from happening?

> Isn't protocol translation a function of a gateway server? In any case, I am
> trying to wring a bit more use from the severely constrained 1200 bps AFSK
> environment most hams use. If we need to fix our gateways to the Internet, that's
> a separat

Protocol translation of Mic-E packets proved to be a dismal failure. There was no specification for the creation of the converted packets. Each application constructed the packet differently. Some had mixed case, some upper case, etc. Some applications added unique identifiers. Incorrect decoding of raw Mic-E packet location information are still seen.

Protocol translation differences, errors or mangling of 8 bit characters of a single packet causes multiple raw, mangled and converted packets to appear on the APRS IS.

The conversion of Mic-E packets is no longer recommended for the above

reasons.

What form would the conversion of a varicoded APRS message packet take?

Would the conversion result in the creation of one or more APRS Spec 1.0 compliant messages with a maximum payload of 67 bytes? If the conversions were gated to RF, you would have the original varicoded message and the converted packets being transmitted along with any mangled versions of packets that contained 8 bit char.

Any changes to the spec should be backwards compatible with existing applications. It has proven difficult, if not impossible, to get users to upgrade to current versions of APRS applications. Changes to firmware based units would be even more difficult, and expensive.

Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jul 13 10:03:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA29409
for <lyris.aprsspec@tapr.org>; Sat, 13 Jul 2002 10:03:25 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: New beta of aprsd 215 available
Date: Sat, 13 Jul 2002 10:58:53 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR15266-88833-2002.07.10-16.03.28--aprs#wa4dsy.net@lists.tapr.org>
<LYR15266-88846-2002.07.10-19.49.54--aprs#wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR15266-88846-2002.07.10-19.49.54--aprs#wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-89190-2002.07.13-10.37.32--lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <02071310585311.05031@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

I've received reports that betas 4 and 5 do not compile on RedHat 6.2. This was caused by a change in the makefile to stop GNU g++ 3.1 compilers from emitting lots of "deprecated" warnings. I've turned back on all warnings so RH 6.2 will be happy. Also I've tweeked some documenation. We are getting real close....

The latest version can be downloaded at:

<http://www.wa4dsy.net/aprs/index.html#aprssservers>

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jul 15 10:15:48 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA22436
for <lyris.aprsspec@tapr.org>; Mon, 15 Jul 2002 10:15:43 -0500 (CDT)
Date: Mon, 15 Jul 2002 11:15:27 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Varicoded Message, Bulletin, Announce Proposal
In-Reply-To: <LYR11586-89102-2002.07.12-20.37.57--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-89475-2002.07.15-10.53.54--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0207151111210.23196-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Not wanting to rain on a good idea, but...

Isn't the average varicode about 5 bits? And since APRS currently uses 7 bit ASCII, this would mean that a 67 byte long APRS message could be extended by only about 28 percent to say about 85 characters...

It seems to me that the payback of having 85 character lines instead of 67 byte is not much compared to the difficulty of implementing a system that would have to be phased in over a long period of time...

Bob

On Fri, 12 Jul
2002, wrote:

> Let me flesh out my idea a bit further. I am proposing a new
> Message/Bulletin/Announcement Data Type Identifier - let's say "\" to indicate
> Varicoded Messages, etc. The max. size is still 67 bytes, so more characters
> would generally be available for messages given the usual distribution of
> characters in message text. I suggest the use of G3PLZ's varicode alphabet,
which
> would be interpreted by enabled APRS clients just like ASCII, since lookup
tables
> are used for either ASCII or a Varicode to translate binary strings into text.
> The legacy message type, indicated by a DTI of ":" would remain in use to permit
> messaging to older client types. As a matter of convention, NOT specification,
> Bulletins and Announcements should not be Varicoded until Varicode-enabled APRS
> clients are the norm. G3PLZ's Varicode alphabet seems like a good fit because it
> was developed from character frequencies in English, not QSOs. Much of what is
> passed in a QSO is already encoded elsewhere in an APRS packet - e.g.,
callsigns,
> QTH, WX, etc. Varicoding messages could enhance the tactical utility of APRS by
> permitting longer free-form messages within single packets, which would help
> prevent channel congestio
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Jul 15 16:37:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA09804
for <lyris.aprsspec@tapr.org>; Mon, 15 Jul 2002 16:37:29 -0500 (CDT)
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: New beta of aprsd 215 available
Date: Mon, 15 Jul 2002 17:35:35 -0400
Content-Type: text/plain;
charset="us-ascii"
References: <LYR15266-88833-2002.07.10-16.03.28--aprs#wa4dsy.net@lists.tapr.org>
<LYR15266-88846-2002.07.10-19.49.54--aprs#wa4dsy.net@lists.tapr.org>
<LYR15266-89189-2002.07.13-10.37.22--aprs#wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR15266-89189-2002.07.13-10.37.22--aprs#wa4dsy.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-89507-2002.07.15-17.14.16--lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Transfer-Encoding: 8bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <0207151735351B.05031@lab1.wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The beta continues to improve. I cleaned up
some minor html formatting problems on the
status pages and fixed the ?IGATE? query response.

Thanks to all those who submitted reports.

The latest version can be downloaded at:

<http://www.wa4dsy.net/aprs/index.html#aprsservers>

--

Dale Heatherington
Web Page <http://www.wa4dsy.net>
Sent by KMail for Linux

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jul 18 12:20:36 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA12524
for <lyris.aprsspec@tapr.org>; Thu, 18 Jul 2002 12:20:34 -0500 (CDT)
Message-ID: <LYR11589-90013-2002.07.18-12.56.49--
lyris.aprsspec@tapr.org>
X-EM-Version: 6, 0, 0, 3
X-EM-Registration: #00E0641810D91B008120
X-Priority: 3
Reply-To: "stanzepa@earthlink.net" <stanzepa@earthlink.net>
X-Originating-IP: 207.190.252.114
X-URL: <http://mail2web.com/>
From: "stanzepa@earthlink.net" <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: stanzepa@earthlink.net
Subject: [aprsspec] Write for PSR
Date: Thu, 18 Jul 2002 13:17:24 -0400
MIME-Version: 1.0
Content-type: text/plain; charset=iso-8859-1
X-OriginalArrivalTime: 18 Jul 2002 17:17:24.0412 (UTC)
FILETIME=[FBBE87C0:01C22E7E]
X-Spam-Status: No, hits=3.2 required=5.0
tests=X_EM_VER_PRESENT, FROM_NAME_EQ_FROM_ADDR version=2.20
X-Spam-Level: ***
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <4910-22002741817172494@M2W074.mail2web.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id MAA12524

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but certainly famous.

The editorial board of Packet Status Register (PSR, TAPR's quarterly newsletter) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

E-mail your contributions to wallou@tapr.org ASAP because the deadline for the next issue of the newsletter is July 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

mail2web - Check your email from the web at
<http://mail2web.com/> .

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jul 26 23:29:36 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA09101
for <lyris.aprsspec@tapr.org>; Fri, 26 Jul 2002 23:29:34 -0500 (CDT)
Date: Fri, 26 Jul 2002 23:29:08 -0500 (CDT)
From: Guy Story <kc5goi@tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: <aprsspec@lists.tapr.org>
Subject: [aprsspec] findu backup update
Message-ID: <LYR11589-91267-2002.07.27-00.08.03-->

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Guy Story <kc5goi@tapr.org>
X-Message-Id: <Pine.BSI.4.30.0207262327420.8813-100000@tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have received all the names that have made donations to the backup server.
If you are missing or have a correction, email me off the list servers. I also found out last saturday that there were a few checks still not run. That was taken care of early this week and pushed the total to \$6700.

I wish I could tell everyone that the server is in but I found out that the original cart we had created expired. That occurred due to the delay in finding the 501c3 document. The document will allow Dell to give us a break on the sales tax. Dell will quote the final price when they get the document.
The treasurer for the DCARA was on vacation the week I found out that the cart was fixing to expire. We have all the documentation in place and a much higher amount that we had when the cart was built for the order.

Additional delays that have occurred have been the results of work, 2 bike rides (MADD and MS150) family and other assorted "disasters" that life deals out.

Let me talk about the server instead of excuses. Clint Miller , KD5BYY is going to be the primary admin on the server. We will be third and I am looking for someone to act as the secondary. That person will need to be very knowledgeable about Linux, Apache and sql databases. I have had some discussion with Steve about the redundancy levels. Clint is an owner of Itel-Tigerbyte and specs out all our equipment. The backup server will be featuring tape backup and a small raid array. If a system failure happens and it takes out the data disk and it's raid mirror, the tape backup will

save that data. The server is not going to be built by Dell with all the memory that is planned for it. Dell is very proud of it's memory upgrades and we can beat the pricing by using local vendors for memory. We originally wanted to get a rack mountable system but that costs more than it is worth.

It is amazing what a rack mount form factor can do to cost. It will have a dedicated battery backup and will talk to the UPS so if it needs to shut down, it can do so in an intelligent manner. Last thing we want is to see a corrupt database due to a bad shutdown.

The server will be located at the co-location facility in Dallas Texas. It will be connected via a T1 that links back to the Denton office. The Denton office is feed by a buisness class 1.5 megabit DSL circuit. The Dallas Co-location facility also has redundant power and generator backup.

When I have the cart that is ordered I will post it to the lists so you can see what your donations purchased. Pictures will also be posted when the server arrives.

Many hams contacted me directly offering to help purchase or find a location to make the server home. Thank you everyone for your offers. They were not ignored or treated lightly.

I want to thank everyone for being patient in this endeavor. It has taken longer than anyone expected, but then again, it has exceeded most peoples wildest expectations. It will be worth the wait. Spider has been instrumental in the donation collection process. Over half the collected donations were routed through him. Jim, I was not joking when I said you won the race. Brent was also a major source of donation collections with his generous offer. TAPR, as always, was a great helper and sport. We all owe these guys a big thanks at this time. The most important players have been those of you who were able to make donations. Pat yourselves on the back. You deserve it.

73

--

Guy Story, KC5G0I
Itel-Tigerbyte LLC
gstory@tigerbyte.com
940.891.4575

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 6 08:19:50 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA05973
for <lyris.aprsspec@tappr.org>; Tue, 6 Aug 2002 08:19:50 -0500 (CDT)
Date: Tue, 6 Aug 2002 8:17:46
Subject: [aprsspec] summer 2002 issue of Packet Status Register
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: "Stan Horzepa" <stanzepa@earthlink.net>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Stan Horzepa" <stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Message-Id: <LYR11589-92983-2002.08.06-08.57.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
Precedence: bulk

The summer 2002 issue of Packet Status Register (PSR) is now available at
www.tappr.org.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 10 09:33:49 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA10023
for <lyris.aprsspec@tappr.org>; Sat, 10 Aug 2002 09:33:48 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] aprsd 215 beta 8 available
Date: Sat, 10 Aug 2002 10:33:52 -0400
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-93548-2002.08.10-10.12.19--
lyris.aprsspec#tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>

X-Message-Id: <20020810143232.75A3228B4C@wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

A new public beta of aprsd 2.1.5 is up on wa4dsy.net.

Since the last aprsd beta release no. 7,
Pete Loveall and I have worked out some additions
and improvements to the new q construct. These
changes are now in beta 8. Please upgrade
all previous aprsd betas so your servers will
be 100% compatable with the core servers.

Download it at (188K):
<http://www.wa4dsy.net/Files/aprsd215b8.tgz>

Documentation is here:
<http://www.wa4dsy.net/aprs/aprsdDOC.html>

--

Dale Heatherington
Web: <http://www.wa4dsy.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Thu Aug 15 08:09:48 2002
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id IAA12676
for <lyris.aprsspec@tapir.org>; Thu, 15 Aug 2002 08:09:47 -0500 (CDT)
Message-ID: <LYR11589-94050-2002.08.15-08.49.19--
lyris.aprsspec@tapir.org@lists.tapir.org>
Date: Thu, 15 Aug 2002 09:06:10 -0400
From: "E. Tupis" <w2ev@rochester.rr.com>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] Spec Clarification Request
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapir.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapir.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapir.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "E. Tupis" <w2ev@rochester.rr.com>
X-Message-Id: <3D5BA742.22A4795@rochester.rr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'd like to formally request that the following be considered by those
"in the loop" in making these decisions...

== The issue ==

The way that icon determination for 4-cypher Grid-in-Status
transmissions is ambiguous and can lead to unintended result, unless
clarified.

== Example ==

This is a 6-cypher grid w/icon & overlay identified (no ambiguity):
>FM19XXBV will display the "V" icon with the letter "B" overlaid

Is this a 4-cypher grid w/icon & overlay or is this a 6-cypher grid with
a forgotten icon & overlay? (ambiguity):
>FM19XX will display the "X" icon with the letter "X" overlaid

== Suggested Solution ==

Require 6-cypher gridsquare for Grid-in-Status when icon & overlay is
desired

- o When no icon & overlay is included, display as gridsquare icon
- o When only 4-cyphers are used, accept and display as gridsquare icon

Respectfully,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 18 09:26:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA13284
for <lyris.aprsspec@tapr.org>; Sun, 18 Aug 2002 09:26:04 -0500 (CDT)
Message-ID: <LYR11589-94330-2002.08.18-10.05.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 18 Aug 2002 10:18:31 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en

MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Grid-in-Status Ambiguous Icon & Overlay followup?
X-Priority: 2 (High)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D5FACB7.52D8E4A4@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

A while ago, I floated the above. No responses or comments on- or off-list to date. Should I continue to await comment or assume there is no interest in the topic? Either way is fine...I'm simply curious.

Ev Tupis, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Aug 19 09:46:21 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24070
for <lyris.aprsspec@tappr.org>; Mon, 19 Aug 2002 09:46:21 -0500 (CDT)
Date: Mon, 19 Aug 2002 10:45:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Spec Clarification Request
In-Reply-To: <LYR11586-94050-2002.08.15-08.49.19--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-94479-2002.08.19-10.25.37--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208191043410.15386-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 15 Aug 2002, E. Tupis wrote:

> I'd like to formally request that the following be considered by those
> "in the loop" in making these decisions...
>
> == The issue ==
> The way that icon determination for 4-cypher Grid-in-Status
> transmissions is ambiguous and can lead to unintended result, unless
> clarified.
>
> == Example ==
> This is a 6-cypher grid w/icon & overlay identified (no ambiguity):
> >FM19XXBV will display the "V" icon with the letter "B" overlaid
>
> Is this a 4-cypher grid w/icon & overlay or is this a 6-cypher grid with
> a forgotten icon & overlay? (ambiguity):
> >FM19XX will display the "X" icon with the letter "X" overlaid
>
> == Suggested Solution ==
> Require 6-cypher gridsquare for Grid-in-Status when icon & overlay is
> desired
> o When no icon & overlay is included, display as gridsquare icon
> o When only 4-cyphers are used, accept and display as gridsquare icon

I agree. The >GG##gg/\$ construct was only meant for the full 6 digit
gridsquare. If the full 6 digits are not known, then I think the letters
AA or something else were supposed to be substituted....

Thanks
Bob

>
> Respectfully,
> Ev, W2EV
>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 20 14:16:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22448
for <lyris.aprsspec@tapr.org>; Tue, 20 Aug 2002 14:16:36 -0500 (CDT)
Message-ID: <LYR11589-94765-2002.08.20-14.53.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 18 Aug 2002 10:18:31 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Grid-in-Status Ambiguous Icon & Overlay followup?
X-Priority: 2 (High)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-22005B@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <LYR22005-94330-2002.08.18-10.05.40--
kcechura#umr.edu@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

X-OriginalArrivalTime: 18 Aug 2002 14:26:20.0557 (UTC)

FILETIME=[38D0CBD0:01C246C3]

A while ago, I floated the above. No responses or comments on- or off-list to date. Should I continue to await comment or assume there is no interest in the topic? Either way is fine...I'm simply curious.

Ev Tupis, W2EV

You are currently subscribed to aprsspec as: kcechura@umr.edu
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 20 17:42:08 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03284
for <lyris.aprsspec@tappr.org>; Tue, 20 Aug 2002 17:42:06 -0500 (CDT)
Date: Tue, 20 Aug 2002 18:35:56 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR11586-94765-2002.08.20-14.53.47--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-94863-2002.08.20-18.19.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208201835190.4862-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

On Sun, 18 Aug 2002, Ev Tupis (W2EV) wrote:

> A while ago, I floated the above. No responses or comments on- or off-list to
> date. Should I continue to await comment or assume there is no interest in the
> topic? Either way is fine...I'm simply curious.

I sent a reply 2 days ago after I returned from Travel...
Maybe you missed it?

Bob

>
> Ev Tupis, W2EV
>
>
> ---
> You are currently subscribed to aprsspec as: kcechura@umr.edu
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Aug 20 23:57:31 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id XAA20288
for <lyris.aprsspec@tappr.org>; Tue, 20 Aug 2002 23:57:30 -0500 (CDT)

Mime-Version: 1.0
X-Sender: mikemusick@earthlink.net@pop.earthlink.net
Message-Id: <LYR11589-94907-2002.08.21-00.36.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 20 Aug 2002 23:55:03 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mike Musick <mikemusick@earthlink.net>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Mike Musick <mikemusick@earthlink.net>
X-Message-Id: <a05101000b988c8820ce6@[66.136.191.97]>
<LYR28781-94903-2002.08.21-00.00.07--mikemusick#earthlink.net@lists.tapr.o
rg>
<LYR28781-94903-2002.08.21-00.00.07--mikemusick#earthlink.net@lists.tapr.o
rg>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>A while ago, I floated the above. No responses or comments on- or off-list to
>date. Should I continue to await comment or assume there is no
>interest in the
>topic?

Speaking for myself, Ev, no interest. I've never supported
grid-in-status and in four years nobody's noticed it isn't there. So
it's moot as far as I'm concerned.

Sorry. :-(

...mike

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 21 02:48:59 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA29441
for <lyris.aprsspec@tapr.org>; Wed, 21 Aug 2002 02:48:55 -0500 (CDT)
Message-ID: <LYR11589-94940-2002.08.21-03.27.49--
lyris.aprsspec#tapr.org@lists.tapr.org>

Date: Wed, 21 Aug 2002 08:47:37 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <LYR11586-94765-2002.08.20-14.53.47--bruninga#nadm.navy.mil@lists.tappr.org>
<LYR26815-94863-2002.08.20-18.19.23--roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-94863-2002.08.20-18.19.23--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <gp6r0uAZW0Y9EwL3@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-94863-2002.08.20-18.19.23--roger#peaksys.co.uk@lists.tappr.org>, Bob Bruninga <bruninga@usna.edu> writes

>On Sun, 18 Aug 2002, Ev Tupis (W2EV) wrote:

>

>> A while ago, I floated the above. No responses or comments on- or off-list to
>> date. Should I continue to await comment or assume there is no interest in
>the

>> topic? Either way is fine...I'm simply curious.

>

>I sent a reply 2 days ago after I returned from Travel...

>Maybe you missed it?

I think I also missed it. However, I didn't think there was any ambiguity in the spec regarding 4 character and six character grids. Or perhaps I'm forgetting what Ev originally asked?

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 21 05:15:13 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id FAA17077
for <lyris.aprsspec@tappr.org>; Wed, 21 Aug 2002 05:15:10 -0500 (CDT)
Message-ID: <LYR11589-94947-2002.08.21-05.55.00--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Wed, 21 Aug 2002 06:14:08 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <LYR21978-94907-2002.08.21-00.36.54--
w2ev#rochester.rr.com@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D6367F0.BDB226CF@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Mike Musick wrote:

>
> >A while ago, I floated the above. No responses or comments on- or off-list to
> >date. Should I continue to await comment or assume there is no
> >interest in the
> >topic?
>
> Speaking for myself, Ev, no interest. I've never supported
> grid-in-status and in four years nobody's noticed it isn't there. So
> it's moot as far as I'm concerned.

Hi Mike,

That makes sense to me from a code writing standpoint. I guess I'm asking from a protocol perspective, should an author (present or future) wish to invoke the function. Thanks for the reply, though. I wasn't sure how to interpret the silence...and now realize that Lyris burped at about the same time as I floated the question.

Appreciate your reply.

Best wishes,
Ev

--

BEACONet lets you look at the world in ways never before imagined.
<http://www.BEACONet.org>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 21 05:28:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA17612
for <lyris.aprsspec@tapr.org>; Wed, 21 Aug 2002 05:28:50 -0500 (CDT)
Message-ID: <LYR11589-94949-2002.08.21-06.08.37--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 21 Aug 2002 06:27:51 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <LYR11586-94765-2002.08.20-14.53.47--
bruninga@nadm.navy.mil@lists.tapr.org>
<LYR26815-94863-2002.08.20-18.19.23--roger#peaksys.co.uk@lists.tapr.org>
<LYR21978-94940-2002.08.21-03.27.49--w2ev#rochester.rr.com@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D636B27.E5788C4E@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> >I sent a reply 2 days ago after I returned from Travel...
> >Maybe you missed it?
>
> I think I also missed it. However, I didn't think there was any
> ambiguity in the spec regarding 4 character and six character grids. Or
> perhaps I'm forgetting what Ev originally asked?

The ambiguity occurs when a 4-cypher grid is sent, using grid-in-status. I discovered it as I was designing a new set of icons to release to the BEACONet

community (where we use GR##ID exclusively)...

>GR##IDoI will display an icon associated with "I" with an overlay of "o".

>GR##ID is ambiguous as one doesn't know if the intent was to send a 6-cypher grid without an icon or overlay expressly chosen or if it is a 4-cypher grid with an icon of "D" and an overlay of "I".

I offered the suggestion that the grid-in-status spec consider requiring 6-cypher grids and to display as /G if there is no icon/overlay shown...but am more interested in removing the ambiguity than necessarily getting stymied by how that is accomplished right now. I was suprised by the lack of comment on it, but then realized that the Lyris system "burped" at around the same time and many may have missed the post.

Best wishes,

Ev, W2EV

<http://www.BEACONet.org>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 21 07:28:52 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA21364
for <lyris.aprsspec@tapr.org>; Wed, 21 Aug 2002 07:28:45 -0500 (CDT)
Message-ID: <LYR11589-94954-2002.08.21-08.08.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 21 Aug 2002 13:28:00 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <LYR11586-94765-2002.08.20-14.53.47--
bruninga#nadm.navy.mil@lists.tapr.org>
<LYR26815-94863-2002.08.20-18.19.23--roger#peaksys.co.uk@lists.tapr.org>
<LYR21978-94940-2002.08.21-03.27.49--w2ev#rochester.rr.com@lists.tapr.org>
<LYR26815-94949-2002.08.21-06.08.37--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-94949-2002.08.21-06.08.37--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <i1YrTKAQd4Y9EwrQ@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-94949-2002.08.21-06.08.37--roger#peaksys.co.uk@lists.tapr.org>, Ev Tupis (W2EV) <w2ev@arrl.net> writes
>> >I sent a reply 2 days ago after I returned from Travel...
>> >Maybe you missed it?
>>
>> I think I also missed it. However, I didn't think there was any
>> ambiguity in the spec regarding 4 character and six character grids. Or
>> perhaps I'm forgetting what Ev originally asked?
>
>The ambiguity occurs when a 4-cypher grid is sent, using grid-in-status. I
>discovered it as I was designing a new set of icons to release to the BEACONet
>community (where we use GR##ID exclusively)...
>
>>GR##IDoI will display an icon associated with "I" with an overlay of "o".
>
>>GR##ID is ambiguous as one doesn't know if the intent was to send a 6-cypher
>grid without an icon or overlay expressly chosen or if it is a 4-cypher grid
>with an icon of "D" and an overlay of "I".

Have a read of section 16 of the APRS spec. You will see that the
table/overlay and symbol characters must be included, they are not
optional. If you only send a total of six characters, then it must be
interpreted as a four character locator.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 21 18:39:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA00473
for <lyris.aprsspec@tapr.org>; Wed, 21 Aug 2002 18:39:23 -0500 (CDT)
Message-ID: <LYR11589-95005-2002.08.21-19.19.14--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 21 Aug 2002 19:37:30 -0400

From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Test
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D64243A.EFF4488D@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Ping

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 22 07:30:05 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11181
for <lyris.aprsspec@tappr.org>; Thu, 22 Aug 2002 07:30:04 -0500 (CDT)
Date: Thu, 22 Aug 2002 08:29:49 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR11586-94907-2002.08.21-00.36.54--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-95115-2002.08.22-08.09.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208220827090.26853-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 20 Aug 2002, Mike Musick wrote:

> Speaking for myself, Ev, no interest. I've never supported
> grid-in-status and in four years nobody's noticed it isn't there. So
> it's moot as far as I'm concerned.

So APRS still does not have a GRIDSquare format that can be received by
all software... what a shame... :-(
And of course, no user who does not see it will not know that he isn't
seeing it, so how will he know to complain..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 22 07:46:57 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11591
for <lyris.aprsspec@tapr.org>; Thu, 22 Aug 2002 07:46:54 -0500 (CDT)
Date: Thu, 22 Aug 2002 08:46:40 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR11586-94949-2002.08.21-06.08.37--
bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-95116-2002.08.22-08.26.46--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208220844490.26853-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 21 Aug 2002, Ev Tupis (W2EV) wrote:

> > >I sent a reply 2 days ago after I returned from Travel...
> > >Maybe you missed it?

> how that is accomplished right now. I was suprised by the lack of comment on
> it, but then realized that the Lyris system "burped" at around the same time and
> many may have missed the post.

Yes, it appears that lyris ate my reply. Here it is:

> I agree. The >GG##gg/\$ construct was only meant for the full 6 digit
> gridsquare. If the full 6 digits are not konwn, then I think the
> letters ZZ or something else were supposed to be substituted....
> Thanks
> Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 22 07:49:09 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA11706
for <lyris.aprsspec@tappr.org>; Thu, 22 Aug 2002 07:49:02 -0500 (CDT)
Date: Thu, 22 Aug 2002 08:48:08 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR11586-94954-2002.08.21-08.08.36--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-95118-2002.08.22-08.28.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208220847310.26853-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 21 Aug 2002, Roger Barker wrote:

> Have a read of section 16 of the APRS spec. You will see that the
> table/overlay and symbol characters must be included, they are not
> optional. If you only send a total of six characters, then it must be
> interpreted as a four character locator.

Yes, that is the correct interpretation too...

bob

>
> --
> Roger Barker, G4IDE - roger@peaksys.co.uk
> For UI-View go to - <http://www.UI-View.com>
> For WinPack go to - <http://www.peaksys.co.uk>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 22 11:51:49 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA23683
for <lyris.aprsspec@tapr.org>; Thu, 22 Aug 2002 11:51:48 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
Date: Thu, 22 Aug 2002 11:51:24 -0500
References: <LYR11586-94765-2002.08.20-14.53.47--
bruninga#nadm.navy.mil@lists.tapr.org> <LYR21978-94940-2002.08.21-03.27.49--
w2ev#rochester.rr.com@lists.tapr.org> <LYR19704-94949-2002.08.21-06.08.37--
jjeffers#aprsworld.net@lists.tapr.org>
In-Reply-To: <LYR19704-94949-2002.08.21-06.08.37--
jjeffers#aprsworld.net@lists.tapr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-95148-2002.08.22-12.31.41--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20020822165124.AF4012149B@agentorange.localnet>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wednesday 21 August 2002 05:27 am, Ev Tupis (W2EV) wrote:
> The ambiguity occurs when a 4-cypher grid is sent, using grid-in-status. I
> discovered it as I was designing a new set of icons to release to the
> BEACONet community (where we use GR##ID exclusively)...

In my aprsworld.net software I use the following algorithm:

extract the 2 letter / 2 digit square

then

if next two letters are both upper case then I assume it is a 6 character
grid square.

Here's the code:

```
void extract_gridsquare (struct position *pos, char *square) {
```

```

int i;
int len = strlen (square);

if ( verbose & 4 )
    printf("Extracting grid square\n");
if (square[0] >= 'A' && square[0] <= 'I') {
    pos->longitude = (square[0] - 'A' + 0) * 20 - 180;
} else {
    pos->longitude = (square[0] - 'J' + 0) * 20;
}

if (square[1] >= 'A' && square[1] <= 'I') {
    pos->latitude = (square[1] - 'A') * 10 - 90;
} else {
    pos->latitude = (square[1] - 'J') * 10;
}

pos->latitude += (square[3] - '0');
pos->longitude += (square[2] - '0') * 2;

if (isupper (square[4]) && isupper (square[5])) {
#define LAT 0.0416666
#define LAT_HALF 0.0208333
#define LON 0.0833333
#define LON_HALF 0.0416666
    pos->latitude += (square[5] - 'A') * LAT + LAT_HALF;
    pos->longitude += (square[4] - 'A') * LON + LON_HALF;

    for (i = 0; i <= len - 7; i++)    // Swallow grid square and space
        square[i] = square[i + 7];
} else {
    pos->latitude += 0.5;
    pos->longitude += 1;

    for (i = 0; i <= len - 5; i++)    // Swallow grid square and space
        square[i] = square[i + 5];
}
}

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

```

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 22 15:09:23 2002
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA05942

for <lyris.aprsspec@tapr.org>; Thu, 22 Aug 2002 15:09:19 -0500 (CDT)
Mime-Version: 1.0
X-Sender: mikemusick@earthlink.net@pop.earthlink.net
Message-Id: <LYR11589-95156-2002.08.22-15.49.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
In-Reply-To: <Pine.GS0.4.44.0208220827090.26853-1000000@arctic>
References: <Pine.GS0.4.44.0208220827090.26853-1000000@arctic>
Date: Thu, 22 Aug 2002 15:07:48 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Mike Musick <mikemusick@earthlink.net>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Mike Musick <mikemusick@earthlink.net>
X-Message-Id: <a05101001b98acea0f5b9@[66.136.191.97]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

[WARNING - Working for myself has been brutal and I have not been getting much sleep lately; the bags under my eyes have become steamer trunks. So I'm currently running at about S9+20 on the grumpy meter... just ask my wife. Given that caveat:]

>So APRS still does not have a GRIDSquare format that can be received by
>all software... what a shame... :-(

Consider it a volley in my quixotic "war against the arcane", Bob. Maidenhead is a poster child for "arcane" in the first place. Then we come along and create an exception-to-the-exception rule putting position data in static informational text to accommodate a >0.01% usage in an experimental context. Arcane ^ 4.

I'll be even more blunt - if somebody is taking the time to compute, generate or otherwise figure-out 6-digit Maidenhead coordinates, they have a GPS in their hand. If they have a GPS, cut the BS and transmit lat/lon.

>And of course, no user who does not see it will not know that he isn't
>seeing it, so how will he know to complain..

That's not the way it works, especially with my application. Folks run pAPRS as a second station, usually mobile. So they frequently have the opportunity to compare what they see on the handheld to what they see on the desktop... and I usually hear about it when there's a

divergence. I have NEVER heard from a user (and I checked!) about grid squares in the four years the app has been around.

...mike

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 05:37:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA21361
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 05:37:26 -0500 (CDT)
Message-ID: <LYR11589-95239-2002.08.23-06.17.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 23 Aug 2002 06:34:23 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <LYR30253-95118-2002.08.22-08.28.47--w2ev#arrrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrrl.net>
X-Message-Id: <3D660FAF.B4A114C9@arrrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

>
> On Wed, 21 Aug 2002, Roger Barker wrote:
>
> > Have a read of section 16 of the APRS spec. You will see that the
> > table/overlay and symbol characters must be included, they are not
> > optional. If you only send a total of six characters, then it must be
> > interpreted as a four character locator.
>
> Yes, that is the correct interpretation too...

That makes sense to me, too. I knew I'd get the straight scoop if I asked.

Thanks, guys.

Kind regards,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 06:04:43 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA22435
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 06:04:37 -0500 (CDT)
Message-ID: <LYR11589-95243-2002.08.23-06.44.37--
lyris.aprsspec@tapr.org>
Date: Fri, 23 Aug 2002 07:01:50 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
References: <Pine.GS0.4.44.0208220827090.26853-1000000@arctic>
<LYR30253-95156-2002.08.22-15.49.10--w2ev@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D66161E.ABFA31F7@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> That's not the way it works, especially with my application. Folks
> run pAPRS as a second station, usually mobile. So they frequently
> have the opportunity to compare what they see on the handheld to what
> they see on the desktop... and I usually hear about it when there's a
> divergence. I have NEVER heard from a user (and I checked!) about
> grid squares in the four years the app has been around.

Mike,

This is probably about to change. I'm now deeply involved in a discussion among
microwave testers in which the topic of BEACONet.25/APRS has caught fire (in

a very positive way). These are people who live-and-die by 6-character gridsquares and operating from remote locations using Palm Pilots to log contacts. To date, all I've suggested using is a laptop and UI-View, because it (and APRSdos) is the only APRS software that behaves in a way as to make it VHF narrowband (read: BEACONet) friendly (a number of reasons, which are beyond the scope of this note).

I guess it's time for me to download pAPRS and play with it's [GG##gg] personality to see if it is friendly, too. The whole UI-Frame concept is misunderstood by a vast majority of ssb/cw VHF operators. I've finally made an inroad to a community that is starting to see the value of using it to *support* their interested (not replace it). You may see more action on pAPRS and grid support as a result.

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 08:00:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA26553
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 08:00:49 -0500 (CDT)
Date: Fri, 23 Aug 2002 09:00:33 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <a05101001b98acea0f5b9@[66.136.191.97]>
Message-ID: <LYR11589-95256-2002.08.23-08.40.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208230830550.1857-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 22 Aug 2002, Mike Musick wrote about GRID-IN-STATUS:

> If somebody is taking the time to compute, generate or otherwise
> figure-out 6-digit Maidenhead coordinates, they have a GPS in their
> hand. If they have a GPS, cut the BS and transmit lat/lon....
> ... I have NEVER heard from a user (and I checked!) about
> grid squares in the four years that [pocketAPRS] has been around.

Ok, but my problem comes about when I have to give recommendations to AMSAT and other packet operators and users of PCsat, UO22, and ISS as to what to use as the fundamental simple PACKET beacon? I can assure you that the one and only HAM radio acceptable lowest common denominator is grid square.

It is the SPACE and Meteor Scatter and other DX applications of APRS that are the only significant reason why I care at all about grid square. And as you know, working the satellites with packet (and APRS) has been my forte for the last several years...

If I try to tell AMSAT folks that they have to use an APRS formatted packet or a GPS LAT/LONG, then it raises hackles and anti-APRS sentiment. Gridsquares have been used via SAREX, MIREX and now ARISS as the defacto default since we launched the first packet digipeater back in 1990. So it has always been easy to just say "transmit your GRID square and oh, by the way, put a ">" in front of it and then everyone with APRS and a kenwood will see you too.... and add a"/X" on the end if you want to indicate your house, car, motorcycle, etc...

So I agree completely with your conclusion, that this is a 1% of 1% APRS application, but on the other hand, it is closer to 90% of everyone on the satellites... It is very frustrating for me that I cannot tell AMSAT a single format that all APRS software will plot. Same goes for meteor scatter and now BEACONNET. Kenwoods cannot tune to the BEACON NET frequency and copy anything, because they changed two bytes in the TOCALL....

Same goes for APRS omni-DFing. It is a very very powerful means to locate a jammer nearly instantly without anyone anywhere having any DF equipment. And it is only used 1% of 1% of the time... but when you need it, it should be there...

I am disappointed that none of the other authors have implemented this fundamental APRS technique... No, the users haven't asked for it, because unless they used APRSdos, they don't know of its power. And since no one enters APRS on APRSdos anymore, but usually come in through a windows application, they have a limited, and skewed view of what APRS is supposed to be able to do....

To see what the OMNI-DF screen (based inversly on PHG) looks like see:

APRS DFing... <http://www.ew.usna.edu/~bruninga/dfing.html>

Bob, WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 14:57:02 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA16789
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 14:56:56 -0500 (CDT)

Mime-Version: 1.0

X-Sender: mikemusick@earthlink.net@pop.earthlink.net

Message-Id: <LYR11589-95320-2002.08.23-15.36.49--

lyris.aprsspec@tapr.org>

In-Reply-To: <Pine.GS0.4.44.0208230830550.1857-1000000@arctic>

References: <Pine.GS0.4.44.0208230830550.1857-1000000@arctic>

Date: Fri, 23 Aug 2002 14:55:29 -0500

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Mike Musick <mikemusick@earthlink.net>

Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?

Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: Mike Musick <mikemusick@earthlink.net>

X-Message-Id: <a05101001b98c09ca3460@[66.136.191.97]>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

At 9:00 AM -0400 8/23/02, Bob Bruninga wrote:

>On Thu, 22 Aug 2002, Mike Musick wrote about GRID-IN-STATUS:

>

>> If somebody is taking the time to compute, generate or otherwise

>> figure-out 6-digit Maidenhead coordinates, they have a GPS in their

>> hand. If they have a GPS, cut the BS and transmit lat/lon....

>> ... I have NEVER heard from a user (and I checked!) about

>> grid squares in the four years that [pocketAPRS] has been around.
>
>Ok, but my problem comes about when I have to give recommendations to
>AMSAT and other packet operators and users of PCsat, U022, and ISS as to
>what to use as the fundamental simple PACKET beacon? I can assure you
>that the one and only HAM radio acceptable lowest common denominator is
>grid square.
>
>It is the SPACE and Meteor Scatter and other DX applications of APRS that
>are the only significant reason why I care at all about grid square. And
>as you know, working the satellites with packet (and APRS) has been my
>forte for the last several years...

Can I be blunt, Bob? (Remember - you were warned that I was grouchy!)
Most of us who are deeply involved in APRS are doing so because of
its core application, AVL, with equally important uses in WX object
communication. When DX beaconing and the satellite stuff usurped the
discussions you seemed to be completely oblivious to all the eyes
rolling back.

While the rank-and-file were concerned with trying to solve the
problems of AVL, network management and the Internet side, you were
off in the woods somewhere pointing a beam skyward. That's fine, and
more power to you, but your attempts to transmogrify all of APRS to
fit your current interests have fallen on a lot of deaf ears. With
due respect, trying to make us feel guilty over issues that a lot of
us frankly don't care about just can't be very productive.

>So I agree completely with your conclusion, that this is a 1% of 1%
>APRS application,

So the problem is...?

>Same goes for APRS omni-DFing. It is a very very powerful means to locate
>a jammer nearly instantly without anyone anywhere having any DF
>equipment. And it is only used 1% of 1% of the time... but when you need
>it, it should be there...

You are making a serious mistake bringing this one up with me. Did
you not pay any attention at all to our quiet little chat three
Days ago? I was quite startled when you resumed beating this drum
a few months back, but I bit my tongue.

Anyway, I distinctly recall taking advantage of a lull in the booth
traffic for this. I told you that from years of direct experience,
I've learned that by the time a "network" of ad hoc receive stations
QSY and resolve their lack of calibration plus the terrain and

propagation anomalies to get the *first* approximate reading, one person with narrow-aperture RDF tools has found it, fixed it and is already relaxing at home with beer in hand.

Using APRS like this is like pounding nails with a wrench. There is a better, much more effective tool, and, yes, thank goodness, you had the foresight to accommodate that better tool as well.

>I am disappointed that none of the other authors have implemented this
>fundamental APRS technique...

Is there maybe a message here? My gosh, I'm the only one besides you who even supports the on-air protocol for vector DF, a fact that has not been lost on the serious RDF fraternity.

For those of us who actually know RDF, "omni DF" is a complete non-starter. Sorry to burst your bubble this way; don't forget that I did at least try to do it "offstage".

: -/

I guess if there's one general piece of advice I can offer, it's to stop trying to make APRS into "the Swiss army knife of ham radio". Swiss knives are great for the infrequent quick fix, but try to do anything serious and you'll bust your knuckles. Let's concentrate on refining what we do sort of well and not heap more stuff on a clogged system just because we've managed to fabricate a faint connection to another prospective application.

...mike

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 16:41:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA20428
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 16:41:17 -0500 (CDT)
Date: Fri, 23 Aug 2002 17:41:03 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <a05101001b98c09ca3460@[66.136.191.97]>
Message-ID: <LYR11589-95337-2002.08.23-17.21.14-->

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208231704420.21794-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 23 Aug 2002, Mike Musick wrote:

Bob Wrote:

> >Ok, but my problem comes about when I have to give recommendations to
> >AMSAT and other packet operators and users of PCsat, U022, and ISS as to
> >what to use as the fundamental simple PACKET beacon? I can assure you
> >that the one and only HAM radio acceptable lowest common denominator is
> >grid square.
>
> Can I be blunt, Bob? (Remember - you were warned that I was grouchy!)
> Most of us who are deeply involved in APRS are doing so because of
> its core application, AVL, with equally important uses in WX object
> communication. When DX beaconing and the satellite stuff usurped the
> discussions you seemed to be completely oblivious to all the eyes
> rolling back.

Ah, but these people with rolling eyes do not understand APRS!

APRS is a tactical real time digital packet communications system.
Remember, APRS stands for Automatic Packet Reporting System. It was
designed to provide a common definition of UI packets that would convey
meaningful information to everyone on frequency. It was intended to
provide a means to communicate digitally, EVERYTHING of interest to the
fixed or mobile operator that was REAL-TIME... AVL is just one part of
APRS...

Yes, when GPS became cheap we also referred to the "P" as position
reporting. But in no uncertain terms, APRS is not "an AVL system" only.
Never was. It is this tendency for HAMdom to keep trying to stuff APRS
into an "AVL" box that is limiting our ability to communicate digitally
and people's understanding of it... APRS should be able to convey to ALL
users in its local area QUICKLY, ANYTHING of interest to everyone in that
area. From the beginning, that included typical HAM radio interests of

AVL, WX, DFing and DX.

> While the rank-and-file were concerned with trying to solve the
> problems of AVL, network management and the Internet side, you were
> off in the woods somewhere pointing a beam skyward.

Me thinks you may be the one lost in the woods....

An AVL system based on fixed stations using a fixed plant Internet linked system without satellite access, leaves 95% of the planet with NO connectivity. Even now, 80% of the area of the USA has no APRS network. But with Satellites, we get coverage for any HAM anywhere worldwide at least 12 times a day.

A narrow definition of APRS that will only work in the population centers of the USA and then only under personally defined terms of what constitutes an AVL system seem to me to be missing the mark...

> That's fine, and more power to you, but your attempts to transmogrify
> all of APRS to fit your current interests have fallen on a lot of deaf
> ears. With due respect, trying to make us feel guilty over issues that a
> lot of us frankly don't care about just can't be very productive.

Grid Square formats were in APRS from 1993. I counter that they are not "current" interests other than my 9 year frustration that late comers to APRS are not fully implementing what APRS was designed to do and this leaves the term "APRS as ambiguous if we have no standards among the various systems and they only implemented the obvious AVL features...

> >So I agree completely with your conclusion, that this is a 1% of 1%
> >APRS application,
>
> So the problem is...?

Simple:

If Home depot only stocks what 99% of the people want, then by definition, any project that requires 100 parts will always be incomplete because of the 1% missing. Thus, you can never go to one store and get everything that you need for a project. This is shortsightedness in the extreme. And frustrating for the consumer.

One cannot take features and leave them out based on frequency of use. One must also consider importance of use. Take the windshield wipers on a car. One typically only uses them 1% of the time. Hummh.. must be practically useless... How about the trailer hitch? Hummh. Only used 1% of the time. Must not be any need for it.... How about the HAM radio in your car... Hummh. Only 0.005 people in the USA are HAMS. No need for General Motors to design cars with electronic ignition systems that can

withstand Radio Transmissions... shucks, it wont affect 99.5% of the drivers... must not be worth it...

Some of the most important features in some systems are the LEAST used. Take a fire alarm for example...

etc...

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 17:40:42 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA23774
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 17:40:38 -0500 (CDT)
Date: Fri, 23 Aug 2002 18:40:19 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: OMNI DFing for eveyone in APRS...
In-Reply-To: <a05101001b98c09ca3460@[66.136.191.97]>
Message-ID: <LYR11589-95355-2002.08.23-18.20.28--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0208231741080.21794-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Fri, 23 Aug 2002, Mike Musick wrote:

Bob Said:

> >Same goes for APRS omni-DFing. It is a very very powerful means to
 > >locate a jammer nearly instantly without anyone anywhere having any DF
 > >equipment. And it is only used 1% of 1% of the time... but when you
 > >need it, it should be there...
 >
 > You are making a serious mistake bringing this one up with me. Did
 > you not pay any attention at all to our quiet little chat three
 > Daytons ago?...
 >
 > I told you that from years of direct experience, I've learned that by
 > the time a "network" of ad hoc receive stations QSY and resolve their
 > lack of calibration plus the terrain and propagation anomalies to get
 > the *first* approximate reading, one person with narrow-aperture RDF
 > tools has found it, fixed it and is already relaxing at home with beer
 > in hand.

But I disagree completely with this assessment. I did then, and I disagree completely with it now. That approach to DF is why no one ever finds a jammer unless the Jammer does the same thing over and over day in and day out obnoxiously and becomes such a nuisance that the talented and prepared DF guys are hunkered down and ready to pounce...

But, unfortunately, that is the status QUO of typical HAM radio, because everyone still thinks of APRS as only an AVL system and does not even know of its omni-dfing power. APRS is not just an AVL system. It is a tool for digital real-time data communications in amateur radio...

Here is how OMNI DFing in APRS(dos) works:

- 1) Not everyone, not even some, but ONLY ONE person needs to have APRS.
- 2) A jammer transmits... Everyone on the repeater instantly switches to REV and notices whether they hear it... This take maybe 10 secs max.
- 3) The jammer only needs to make one transmission. No more.
- 4) At his leisure, the one APRS user can ask for "reports". The voice users say "I'm in Bowie, nothing heard...." or "Im on the north part of the beltway, Nothing heard"... and so on. This takes maybe a minute.
- 5) the one and only one APRS user then simply moves his cursor to each reported area, ADDS an OMNI-DF report to that place on the map for each report and instantly, his APRS(dos) plots the PHG circles drawn inversely proportional to signal strength and instantly the APRS user (and anyone else on 144.39 for tht matter) sees the complete picture.

Then to the most casual observer anyone can see where the jammer both "IS" and "ISNT". And due to the way radio works, 90% of the reports will be showing the 90% of the area where the jammer ISNT. Even if NO ONE hears the jammer, eliminating 90% of the area where he ISNT is very, very valuable...

When I have done this on a FOX hunt, I can usually localize the area of the FOX within the first 10 minutes of an event (by asking for reports on the local repeaters)... I can tell from this approach the general area of the jammer LONG before the DF equipped hounds are anywhere near the area... In fact, when they roll in 1 to 3 hours later, after having driven all over half the state, I could have told them in the first 10 minutes where to go FIRST and then hone their search.

No, OMNI DFing has no chance of finding the guy's house in the "last mile"... But since it can localize the area generally to a neighborhood almost instantly, it is very valuable at localizing the source of interference. Yes, then call in the DF gear to nail him. But most of the time, announcing on the repeater that "the signal appears to be coming from "Tinseltown" will cause the "Tinseltown" jammer to very quickly re-think his strategy...

> Using APRS like this is like pounding nails with a wrench. There is a
> better, much more effective tool (Automatic DF Equipment), and, yes,
> thank goodness, you had the foresight to accommodate that better tool
> as well.

Yes, that stuff works great for ANNOUNCED events and the 2% of HAM radio operators that purchase and use it, but it does practically nothing for come-as-you-are tactical-real-time digital communications of what is happening routinely in one's area. APRS has a MAP. APRS knows what people's radio range is from their PHG. It is ludicrous to me that all APRS applications don't simply tie these two together and apply them to the most routine occurrence and that is locating the source of an interfering signal...

> Is there maybe a message here? My gosh, I'm the only one besides you
> who even supports the on-air protocol for vector DF, a fact that has
> not been lost on the serious RDF fraternity.

Yes, but the RDF community is only 2% of the amateur population and when a signal appears on a repeater that needs to be DF'ed, why not take the data that is already available to everyone and plot it, instead of waiting until you can call up the RDF crew and then wait for the jammer to raise his head "again" later so the RDF folks can do their thing?

HALF of my frustration is that mobile FM hams don't instantly switch to reverse and report what they hear. But the reason they are not in that habit is because they don't know that APRS can use this information to instantly localize the signal. And they don't know that because only APRSdos does it. And these days most people have never seen APRSdos and are using the later programs that have not fully implemented APRS and so.... chicken-egg....

> For those of us who actually know RDF, "omni DF" is a complete
> non-starter. Sorry to burst your bubble this way; don't forget that I
> did at least try to do it "offstage".

Yes, and that attitude towards localizing signals is the problem. "No one can play in the RDF game unless they do it the old-fashioned brute-force gotta-have-the-most-toys" approach... When, actually, the data is available to the other 98% of hamdom all the time.

On a FOX hunt RDF wins hands down.

But during the other 98% of the time in HAM Radiodom when you want to know the source of only a brief unauthorized transmission, you are far better off taking AVAILABLE data from EVERYONE on frequency than waiting a day or so to get an RDF team together and waiting for him to do it again...

Also, remember that APRSdos includes the Civil Air Patrol tried-and-true fade-circle OMNI DFing technique as well. And calling that a "non starter" overlooks decades of practical and successful application of that technique. With it, one person with a mobile radio and APRSdos can drive around and eventually find a signal all by himself.

> I guess if there's one general piece of advice I can offer, it's to
> stop trying to make APRS into "the Swiss army knife of ham radio".
> Swiss knives are great for the infrequent quick fix, but try to do
> anything serious and you'll bust your knuckles.

Ah... APRS !was! designed to be the QUICK FIX of HAM radio. It is supposed to be the "tactical-real-time digital" communications system that lets you communicate quickly and error free (digitally) about anything and everything that is happening LIVE in the local area. I don't know how many ways to say that.... And in that same vein it is NOT supposed to do "serious" long-term, permanent, bulk data, high data rate communications. All of those needs are best done with other systems on a different frequency.

> Let's concentrate on refining what we do sort of well and not heap more
> stuff on a clogged system just because we've managed to fabricate a
> faint connection to another prospective application.

Our difference of opinion is clearly rooted in our differing opinions over what APRS is. And I stand behind the original objectives of what APRS is supposed to be:

"A tactical-real-time digital communications system" for rapid exchange of short bursts of error-free data within an area of local operations.. And limiting definitions of what that data is to only AVL, is a sure way to make sure that APRS remains in most people's minds an AVL only system

with no proactical value beyond that scope..

APRS is NOT an AVL system other than it is nice to know where the mobile stations in your LOCAL network are...

BUT APRS has a MAP, and APRS knows everyone's radio range (PHG) then why in the world not plot "signals heard or not heard" and let everyone SEE where the jammer IS and ISNT. The data is THERE! Why, oh why, not use it?

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 18:38:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25280
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 18:38:35 -0500 (CDT)
Date: Fri, 23 Aug 2002 16:38:30 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR29682-95256-2002.08.23-08.40.47--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-95362-2002.08.23-19.18.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 23 Aug 2002 23:38:30.0941 (UTC)
FILETIME=[3020F4D0:01C24AFE]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.GS0.4.44.0208231637100.20993-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Trying to post this again 'cuz the list software wouldn't let me do it last time.

On Fri, 23 Aug 2002, Bob Bruninga wrote:

> Same goes for APRS omni-DFing. It is a very very powerful means to locate
> a jammer nearly instantly without anyone anywhere having any DF
> equipment. And it is only used 1% of 1% of the time... but when you need
> it, it should be there...
>
> I am disappointed that none of the other authors have implemented this
> fundamental APRS technique...

Ah, but Xastir has it. <http://www.xastir.org>

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math." -- unknown

"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Aug 23 18:42:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA25380
for <lyris.aprsspec@tapr.org>; Fri, 23 Aug 2002 18:42:22 -0500 (CDT)
Date: Fri, 23 Aug 2002 16:42:12 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <LYR29682-95320-2002.08.23-15.36.49--curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-95363-2002.08.23-19.22.19--lyris.aprsspec#tapr.org@lists.tapr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 23 Aug 2002 23:46:49.0321 (UTC)
FILETIME=[592FB590:01C24AFF]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.GS0.4.44.0208231639290.20993-100000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 23 Aug 2002, Mike Musick wrote:

> Is there maybe a message here? My gosh, I'm the only one besides you
> who even supports the on-air protocol for vector DF, a fact that has
> not been lost on the serious RDF fraternity.

And Xastir. We can do Omni-DF and vector DF. We don't support
automated DF'ing though. If I had an RDF unit in-hand it'd be
supported.

> For those of us who actually know RDF, "omni DF" is a complete
> non-starter. Sorry to burst your bubble this way; don't forget that I
> did at least try to do it "offstage".

Unfortunately I'm probably in the "don't actually know RDF"
category. I've done a little, but am not an enthusiast. I can't
judge how well each method might work.

Curt Mills, WE7U hacker.NO_*SPAM@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 07:50:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA01719
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 07:50:20 -0500 (CDT)
Message-ID: <LYR11589-95434-2002.08.24-08.30.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Andrew Stubbs" <andrews@stusoft.com>
From: "Andrew Stubbs" <andrews@stusoft.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Is the message within spec ?
Date: Sat, 24 Aug 2002 13:50:05 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyriss Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <011c01c24b6c\$c5736360\$fdfea8c0@localnet>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

While testing a program I'm writing I noticed 2 messages that do not seem to be within spec:

IRONMT>APRS,RCHFLD,SHEPRD*,qAS,K7UHP:/WB7REL WIDE IRON MT
(This is a position with timestamp - but there is no position)

G10XB>APH104-7,qAS,GORDI:=/4Ri*NH<y-!!A
(This is a position without timestamp - but it looks like Mic-E?)

Is this correct or have I missed something ?

Thanx

Andrew

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 24 07:57:32 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id HAA02153
for <lyris.aprsspec@tappr.org>; Sat, 24 Aug 2002 07:57:27 -0500 (CDT)
X-Sent: 24 Aug 2002 12:57:11 GMT
Date: Sat, 24 Aug 2002 08:57:09 -0400
From: Steve Dimse <k4hg@tappr.org>

Subject: [aprsspec] Re: Is the message within spec ?
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
X-Priority: 3
In-Reply-To: <LYR30403-95434-2002.08.24-08.30.18--k4hg#tappr.org@lists.tappr.org>
Message-ID: <LYR11589-95435-2002.08.24-08.37.23--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; Charset=US-ASCII
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Steve Dimse <k4hg@tappr.org>
X-Message-Id: <r01050300-1015-0021EF75B76111D6B70A00039345286E@[192.168.1.100]>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On 8/24/02 at 1:50 PM andrews@stusoft.com (Andrew Stubbs) sent:

>IRONMT>APRS,RCHFLD,SHEPRD*,qAS,K7UHP:/WB7REL WIDE IRON MT
>(This is a position with timestamp - but there is no position)
>
This is wrong, should be a status message (>), but errors in the manually
entered beacons of digis are quite common.

>G10XB>APH104-7,qAS,G0RDI:=/4Ri*NH<y-!!A
>(This is a postion without timestamp - but is looks like Mic-E?)
>
This is the compressed format (AKA base 91) described in the spec.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Aug 24 10:14:55 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA07228
for <lyris.aprsspec@tappr.org>; Sat, 24 Aug 2002 10:14:51 -0500 (CDT)
Date: Sat, 24 Aug 2002 11:14:30 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Grid-in-Status Ambiguous Icon & Overlay followup?
In-Reply-To: <Pine.GS0.4.44.0208231637100.20993-100000@dogbert.tc.fluke.com>
Message-ID: <LYR11589-95451-2002.08.24-10.54.46--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.02082411111530.9250-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 23 Aug 2002, Curt Mills, WE7U wrote:

> On Fri, 23 Aug 2002, Bob Bruninga wrote:
>
> > Same goes for APRS omni-DFing. It is a very very powerful means to locate
> > a jammer nearly instantly without anyone anywhere having any DF
> > equipment. And it is only used 1% of 1% of the time... but when you need
> > it, it should be there...
>
> Ah, but Xastir has it. <http://www.xastir.org>

Neato! Thanks. hard for me to keep up...
Now all we gotta do is get the general ham population to always listen to
the input whenever they want to find an interfering signal and report
their position even if they DONT hear anything...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 10:46:53 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA09255
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 10:46:47 -0500 (CDT)

Message-ID: <LYR11589-95454-2002.08.24-11.26.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Andrew Stubbs" <andrews@stusoft.com>
From: "Andrew Stubbs" <andrews@stusoft.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR29846-95435-2002.08.24-08.37.23--m0aqm#stusoft.com@lists.tapr.org>
Subject: [aprsspec] Re: Is the message within spec ?
Date: Sat, 24 Aug 2002 16:46:32 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <012f01c24b85\$6bb4f4b0\$fdfea8c0@localnet>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> On 8/24/02 at 1:50 PM andrews@stusoft.com (Andrew Stubbs) sent:
>
> >IRONMT>APRS,RCHFLD,SHEPRD*,qAS,K7UHP:/WB7REL WIDE IRON MT
> >(This is a position with timestamp - but there is no position)
> >
> This is wrong, should be a status message (>), but errors in the manually
> entered beacons of digis are quite common.
>
> >G10XB>APH104-7,qAS,GORDI:=/4Ri*NH<y-!!A
> >(This is a postion without timestamp - but is looks like Mic-E?)
> >
> This is the compressed format (AKA base 91) described in the spec.
>
> Steve K4HG
>
> ---

So the IRONMNT will never appear on a Map until someone fixes the beacon ?

Sorry for sounding so dim, so both the "compressed format" and the "position
without timestamp" can start with a "=". (and others now I look more
closely)

That being the case, what approach do programmers take to tell them apart ?
It seems there is a variable record type without a unique identifying key ?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 11:07:10 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA10039
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 11:07:05 -0500 (CDT)
X-Sent: 24 Aug 2002 16:06:49 GMT
Date: Sat, 24 Aug 2002 12:06:47 -0400
From: Steve Dimse <k4hg@tapr.org>
Subject: [aprsspec] Re: Is the message within spec ?
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
X-Priority: 3
In-Reply-To: <LYR30403-95454-2002.08.24-11.26.43--k4hg#tapr.org@lists.tapr.org>
Message-ID: <LYR11589-95455-2002.08.24-11.47.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; Charset=US-ASCII
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Steve Dimse <k4hg@tapr.org>
X-Message-Id: <r01050300-1015-7DFD55AAB77B11D6B70A00039345286E@[192.168.1.100]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 8/24/02 at 4:46 PM andrews@stusoft.com (Andrew Stubbs) sent:

>So the IRONMNT will never appear on a Map until someone fixes the beacon ?
>

yes, since it is not sending a position, even if it is using a position format character.

>Sorry for sounding so dim, so both the "compressed format" and the "position
>without timestamp" can start with a "=". (and others now I look more
>closely)

>

>That being the case, what approach do programmers take to tell them apart ?

>It seems there is a variable record type without a unique identifying key ?

>

This is all detailed in the APRS Spec (page 37).

The compressed format can appear anywhere a normal lat/lon field appears in the spec. A normal Lat/Lon has a digit in the first position, while the compressed report has the symbol table identifier.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 16:50:40 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA27072
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 16:50:39 -0500 (CDT)
Date: Sat, 24 Aug 2002 17:49:52 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Is the message within spec ?
In-Reply-To: <LYR11586-95434-2002.08.24-08.30.18--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-95481-2002.08.24-17.30.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208241749030.27416-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 24 Aug 2002, Andrew Stubbs wrote:

> G10XB>APH104-7,qAS,GORDI:=/4Ri*NH<y-!!A
> (This is a position without timestamp - but it looks like Mic-E?)

I think it is a compressed format. But don't have spec in front of me to confirm...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 17:06:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA27974
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 17:06:05 -0500 (CDT)
Date: Sat, 24 Aug 2002 18:05:49 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Is the message within spec ?
In-Reply-To: <LYR11586-95454-2002.08.24-11.26.43--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-95483-2002.08.24-17.46.01--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208241804210.27416-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 24 Aug 2002, Andrew Stubbs wrote:

> Sorry for sounding so dim, so both the "compressed format" and the "position

> without timestamp" can start with a "=". (and others now I look more
> closely)

Yes, ANY position can be compressed. The leading TYPE character remains the same. To tell the difference you must always look at the first digit of LATITUDE. If it is numeric it is a normal LAT/LONG. If it is anything else, it is compressed...

de WB4APR@amsat.org, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Aug 24 20:46:50 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA07735
for <lyris.aprsspec@tapr.org>; Sat, 24 Aug 2002 20:46:50 -0500 (CDT)
Message-ID: <LYR11589-95521-2002.08.24-21.26.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 24 Aug 2002 21:43:02 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] WX3P digi gone?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D683626.D0D3A978@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I've returned to 144.390 for a project and noticed that one of the WNY area's stalwart WIDE DIGI's -- WX3P -- is not active. Anybody know what happened? Is Jack ok?

Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 25 08:17:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA10365
for <lyris.aprsspec@tapr.org>; Sun, 25 Aug 2002 08:17:03 -0500 (CDT)
Message-ID: <LYR11589-95604-2002.08.25-08.57.04--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sun, 25 Aug 2002 09:13:15 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Unix/Linux APRS Help
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3D68D7EB.598C16DD@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I am now involved in a major elmer project and need to know about the capabilities of the version(s) of APRS that work on the above OS's. I am posting here because I'm trying to avoid the "stuff" that happens on the APRS sig. I'm looking for information...not conflict.

This project requires a Unix/Linux APRS client with the ability to do the following:

- o Turn *off* ALTNET function (no matter what is in the to-call, the posit plots)
- o Support both [GR##ID]-in-comment and >GG##ggOI-in-status formats
- o Support for the RFONLY alias. This alias is correctly implemented with the following personality:
RFONLY anywhere in the TOCALL will cause any IGATE to *not* pass the frame to the Internet stream.
- o Easily import custom maps

Secondary Need (but not a deal-killer):

o Ability to ALTNET based on display icon, rather than TOCALL. Something like a BUDLIST/SUPLIST based on icon.

Any input as to title to suggest would be great. Thanks for helping.

Ev, W2EV

--

BEACONet lets you look at the world in ways never before imagined.

<http://www.BEACONet.org>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Aug 25 18:33:00 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA05750
for <lyris.aprsspec@tapr.org>; Sun, 25 Aug 2002 18:32:56 -0500 (CDT)
Message-ID: <LYR11589-95645-2002.08.25-19.12.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sun, 25 Aug 2002 17:32:39 -0600
From: KC7ZRU - Tate <kc7zru@arrrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Unix/Linux APRS Help
References: <LYR19726-95604-2002.08.25-08.57.04--kc7zru#arrrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: KC7ZRU - Tate <kc7zru@arrrl.net>
X-Message-Id: <3D696917.6B1302C1@arrrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ev,

Forwarding your question to the xastir user's reflector.

I **think** it'll do all you ask. Since it's really the only APRS client being actively developed for **nix*, it's about your only real choice - but what a choice it is!

73

"Ev Tupis (W2EV)" wrote:

```
>
> I am now involved in a major elmer project and need to know about the
> capabilities of the version(s) of APRS that work on the above OS's. I am
> posting here because I'm trying to avoid the "stuff" that happens on the APRS
> sig. I'm looking for information...not conflict.
>
> This project requires a Unix/Linux APRS client with the ability to do the
> following:
>
> o Turn *off* ALTNET function (no matter what is in the to-call, the
>   posit plots)
> o Support both [GR##ID]-in-comment and >GG##ggOI-in-status formats
> o Support for the RFOONLY alias. This alias is correctly implemented with
>   the following personality:
>   RFOONLY anywhere in the TOCALL will cause any IGATE to *not* pass the frame
>   to the Internet stream.
> o Easily import custom maps
>
> Secondary Need (but not a deal-killer):
> o Ability to ALTNET based on display icon, rather than TOCALL. Something
>   like a BUDLIST/SUPLIST based on icon.
>
> Any input as to title to suggest would be great. Thanks for helping.
>
> Ev, W2EV
> --
> BEACONet lets you look at the world in ways never before imagined.
> http://www.BEACONet.org
```

--

```
      Casper, WY      |      CARC Repeater
      DN62tt         |      146.940
"The Dungeon" online at http://go.to/kc7zru
      "RTFM" is NOT a 'four letter' word!
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Aug 26 11:32:35 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA00804
for <lyris.aprsspec@tappr.org>; Mon, 26 Aug 2002 11:32:32 -0500 (CDT)
Date: Mon, 26 Aug 2002 09:32:21 -0700 (PDT)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Unix/Linux APRS Help
In-Reply-To: <LYR30395-95604-2002.08.25-08.57.04--
hacker@tc.fluke.com@lists.tappr.org>
Message-ID: <LYR11589-95701-2002.08.26-12.12.36--
lyris.aprsspec@tappr.org@lists.tappr.org>
Organization: Fluke Corporation
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 26 Aug 2002 16:32:22.0267 (UTC)
FILETIME=[27402CB0:01C24D1E]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.GS0.4.44.0208260928440.20993-1000000@dogbert.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Sun, 25 Aug 2002, Ev Tupis (W2EV) wrote:

> I am now involved in a major elmer project and need to know about the
> capabilities of the version(s) of APRS that work on the above OS's. I am
> posting here because I'm trying to avoid the "stuff" that happens on the APRS
> sig. I'm looking for information...not conflict.

The Xastir developers would be happy to discuss this with you on the
Xastir lists: The xastir-dev list would be best.

<http://www.xastir.org> will get you the subscription info.

Enough to this sig. It's not really for discussing particular APRS
variants.

I'll send you another note directly that discusses each point you
brought up.

Curt Mills, WE7U
Senior Methods Engineer/SysAdmin

hacker.NO_*SPAM@tc.fluke.com

"Lotto: A tax on people who are bad at math." -- unknown
"Windows: Microsoft's tax on computer illiterates." -- WE7U

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 26 11:52:25 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA01728
for <lyris.aprsspec@tapr.org>; Mon, 26 Aug 2002 11:52:17 -0500 (CDT)
Message-ID: <LYR11589-95705-2002.08.26-12.32.21--
lyris.aprsspec#tapr.org@lists.tapr.org>
Reply-To: "Andrew Stubbs" <andrews@stusoft.com>
From: "Andrew Stubbs" <andrews@stusoft.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Stuck
Date: Mon, 26 Aug 2002 17:52:08 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <03a801c24d20\$eabde180\$fdfea8c0@localnet>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Having read the v1 spec from the TAPR web site I am still currently at a loss on one point 8(.

Chapters 9 and 10 describe the 2 compression methods and how to correctly decode them.

I have coded subroutines which correctly decode the message when passed a string in the correct format for each of the compression types, but now I come to devise the switching mechanism based on message content.

So my question is: "What unique characteristic(s) of a message allows me to

determine what compression method was used"

On the face of it 8 consecutive characters from the sub-set defining base91 encoding would seem to indicate that it's base91 encoded, but as MIC-E also uses a section of the ASCII table (albeit for a fewer number of bytes) there is a potential for overlap. (or am I just being paranoid?)

Thanx

Andrew MOAQM

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 26 12:21:48 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA03651
for <lyris.aprsspec@tapr.org>; Mon, 26 Aug 2002 12:21:48 -0500 (CDT)
Subject: [aprsspec] RE: Stuck
Date: Mon, 26 Aug 2002 12:21:40 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-95709-2002.08.26-13.01.54--
lyris.aprsspec@tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] Stuck
Thread-Index: AcJNIP5I+1q0XxkmSgy8mcT1orvkaAAA856Q
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE08@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id MAA03651

You need to look at the packet data type. Mic-E packets have a

different type character than standard posits.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Andrew Stubbs [<mailto:andrews@stusoft.com>]
> Posted At: Monday, August 26, 2002 11:53 AM
> Subject: [aprsspec] Stuck
>
> types, but now I
> come to devise the switching mechanism based on message content.
>
> So my question is: "What unique characteristic(s) of a
> message allows me to
> determine what compression method was used"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 26 13:13:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA06559
for <lyris.aprsspec@tapr.org>; Mon, 26 Aug 2002 13:13:11 -0500 (CDT)
Date: Mon, 26 Aug 2002 14:12:50 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Stuck
In-Reply-To: <LYR11586-95705-2002.08.26-12.32.21--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-95714-2002.08.26-13.53.15--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208261412090.13719-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 26 Aug 2002, Andrew Stubbs wrote:

> I have coded subroutines which correctly decode the message when passed a
> string in the correct format for each of the compression types, but now I
> come to devise the switching mechanism based on message content.

All messages in APRS use standard ASCII characters and there is no
compression applied to messages..

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Aug 26 18:19:57 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA21328
for <lyris.aprsspec@tappr.org>; Mon, 26 Aug 2002 18:19:55 -0500 (CDT)
Date: Mon, 26 Aug 2002 19:19:35 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] APRS non-ENGLISH formats
In-Reply-To: <LYR11586-95337-2002.08.23-17.21.14--bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-95738-2002.08.26-18.59.57--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208261304220.21847-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

I propose the following method for incorporating non ASCII alphabet messages into APRS:

I think we need to establish a NEW message type that is for NON-ENGLISH messages (that cant be spelled with ASCII):

ENGLISH MSGS: :TOCALL :message goes here
OTHER LANGUAGEs: {MJ:TOCALL:message goes here

Notice that the "{" identifies a NEW APRS format
 "M" Means it is a new MESSAGE format
 "J" means it is Japanese (for example)
 ":tocall:" is the same as before (but variable length)
 "message" can use any 8-bit bytes needed...

This then makes it extensible to any alphabets..

Notice that I am suggesting for the NEW TOCALL to be variable length. That will save bytes. The only reason the existing message format had a fixed-length for the TOCALL was historical...

Since all software will IGNORE any NEW "{" format that it does not recognize, this will make it easy to integrate into APRS new alphabets

But this only works for messages. The only other thing is the 20 bytes in the STATUS field, but we should be able to handle them too with a leading special character or something?

Bob

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Aug 26 20:24:47 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA26649
for <lyris.aprsspec@tapr.org>; Mon, 26 Aug 2002 20:24:43 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Mon, 26 Aug 2002 20:24:30 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-95759-2002.08.26-21.04.45--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] APRS non-ENGLISH formats
Thread-Index: AcJNVx4Bwv9/580YQ9+jxjL9ynbQDAAEKr3w
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE18@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA26649

But messages can already contain any 8 bit characters. I understand the desire to make it possible to identify a character set. I recommend using the standard message format so IGates and APRS-IS servers know that these are messages and putting a character sequence after the colon which follows the TOCALL to identify the character set. In most cases, the messaging using characters >= 0x80 is between two stations using the same character set anyway so it wouldn't change their operation at all.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Monday, August 26, 2002 6:20 PM

> Subject: [aprsspec] APRS non-ENGLISH formats
>
> I propose the following method for incorporating non ASCII alphabet
> messages into APRS:

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 27 02:53:30 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA11846
for <lyris.aprsspec@tapr.org>; Tue, 27 Aug 2002 02:53:26 -0500 (CDT)
Message-ID: <LYR11589-95798-2002.08.27-03.33.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 27 Aug 2002 08:51:55 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
References: <LYR26815-95759-2002.08.26-21.04.45--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-95759-2002.08.26-21.04.45--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <BPoDdKAb+ya9Ew94@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-95759-2002.08.26-21.04.45--roger#peaksys.co.uk@lists.tapr.org>, AE5PL Lists <HamLists@ametx.com> writes

>But messages can already contain any 8 bit characters.

In practice yes - otherwise APRS would never be used in many EU countries - but in theory no. The spec says messages may "contain any printable ASCII characters except |, ~ or {".

In the world outside APRS, "printable ASCII characters" means the characters 0x20 to 0x7F, and I have always assumed that it meant the same in the APRS spec.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 27 08:11:18 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA01404
for <lyris.aprsspec@tapr.org>; Tue, 27 Aug 2002 08:11:14 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Tue, 27 Aug 2002 08:11:02 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-95811-2002.08.27-08.51.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
Thread-Index: AcJNnuV/Ja71uKszTw63pXVkdieqWAAK6rzQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE1B@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA01404

Good point. So it sounds like the spec needs to be changed to allow 8 bit characters since they are allowed on AX.25 and in use in other parts of the world.

The exclusion of |, ~, and { is understandable as it keeps common special characters used by TNC's from appearing in the data stream. Same for characters < 0x20 (although Mic-E can use 0x1c & 0x1d).

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Roger Barker [<mailto:roger@peaksys.co.uk>]
> Posted At: Tuesday, August 27, 2002 2:54 AM
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>
> >But messages can already contain any 8 bit characters.
>
> In practice yes - otherwise APRS would never be used in many EU
> countries - but in theory no. The spec says messages may "contain any
> printable ASCII characters except |, ~ or {".
>
> In the world outside APRS, "printable ASCII characters" means the
> characters 0x20 to 0x7F, and I have always assumed that it meant the
> same in the APRS spec.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 27 19:19:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA05340
for <lyris.aprsspec@tapr.org>; Tue, 27 Aug 2002 19:18:58 -0500 (CDT)
Date: Tue, 27 Aug 2002 20:18:23 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-95759-2002.08.26-21.04.45--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-95929-2002.08.27-19.59.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208272015510.7263-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 26 Aug 2002, AE5PL Lists wrote:

> But messages can already contain any 8 bit characters. I understand the
> desire to make it possible to identify a character set. I recommend
> using the standard message format so IGates and APRS-IS servers know
> that these are messages and putting a character sequence after the colon
> which follows the TOCALL to identify the character set. In most cases,
> the messaging using characters >= 0x80 is between two stations using the
> same character set anyway so it wouldn't change their operation at all.

Although this is an alternative approach, I prefer leaving the existing MESSAGE format untouched so that current applications do not begin to display gyberish. By putting non-European/non-Western FONTS in a totally new format, it avoids any backwards compatibility issues.

Bob

> > -----Original Message-----
> > From: Bob Bruninga [mailto:bruninga@usna.edu]
> > Posted At: Monday, August 26, 2002 6:20 PM
> > Subject: [aprsspec] APRS non-ENGLISH formats
> >
> > I propose the following method for incorporating non ASCII alphabet
> > messages into APRS:
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://www.toad.net/~wclement/bruninga/mic-lite.html

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Aug 27 20:09:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA08167
for <lyris.aprsspec@tapr.org>; Tue, 27 Aug 2002 20:09:18 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Tue, 27 Aug 2002 20:09:06 -0500
Message-ID: <LYR11589-95938-2002.08.27-20.49.26--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Index: AcJOKJUcmbNe9mN4T1asjVrptNgtowABhC5Q
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE25@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id UAA08167

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Tuesday, August 27, 2002 7:20 PM
> Posted To: APRS Specification
> Conversation: [aprsspec] RE: APRS non-ENGLISH formats
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>
> display gyberish. By putting non-European/non-Western FONTS
> in a totally
> new format, it avoids any backwards compatibility issues.

I am not sure what software doesn't allow 8 bit characters in the
message. Even if some software doesn't display 8 bit characters,

doesn't even that software display the message converting the 8 bit characters to 7 bit or spaces? I think that is still a better situation than introducing a new format that would have a compatibility issue with IGates and APRS-IS servers. Message packets get special handling for gating purposes. Adding a new message format would make all current IGates and APRS-IS servers incompatible with that format.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 08:12:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA17254
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 08:12:39 -0500 (CDT)
Date: Wed, 28 Aug 2002 09:12:16 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-95938-2002.08.27-20.49.26--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-96024-2002.08.28-08.52.44--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208280859520.13222-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob proposes a new MESSAGE format for non-european/non-western Fonts
(such as Japanese and Chinese and what-ever...)

> > By putting non-European/non-Western FONTS in a totally
> > new format, it avoids any backwards compatibility issues.

AE5PL says:

> I think [putting 8 bit non ASCII printable characters in the existing
> message format] is still a better situation than introducing a new
> format that would have a compatibility issue with IGates and APRS-IS
> servers. Message packets get special handling for gating purposes.
> Adding a new message format would make all current IGates and APRS-IS
> servers incompatible with that format.

And that is exactly the intent. Bringing in these new completely
incompatible FONTS must be in a *new* non compatible format as well. This
way current IGates ignore the new format completely and do not let it mess
up what we have... Then we upgrade the IGates to "properly" handle the
new non-compatible messages, rather than letting these totally gyberish
fonts munge up the existing APRS system.

By using a new format, we "do-it-right" by introducing a new format for
something that is totally incompatible with past practice and making sure
that it does not mess up what we already have... Yet, we then grow the
system to handle the new format....

There is no way that I want to have GYBERISH messages and bulletins
cluttering up existing MESSAGE lists and traffic pages. If end user
software has the ability to display these graphical fonts, then such end
user software is also easily able to take the new format, convert to the
new FONT and then integrate it into the existing message displays as
desired, but the on-air formats must *not* be intermingled or we destroy
existing systems.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 08:50:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA19051
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 08:50:17 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 08:49:44 -0500

Message-ID: <LYR11589-96032-2002.08.28-09.30.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
Thread-Index: AcJ0lKYRP9iwpLKgQ429/dlU0bZbIgAAzEcg
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04903C@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA19051

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Wednesday, August 28, 2002 8:13 AM
> Posted To: APRS Specification
> Conversation: [aprsspec] RE: APRS non-ENGLISH formats
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>

> And that is exactly the intent. Bringing in these new completely
> incompatible FONTS must be in a *new* non compatible format
> as well. This

Now we have gone from character sets to fonts. In either case, there are literally hundreds of these with many different variations. Trying to handle them within APRS will be virtually impossible.

> way current IGates ignore the new format completely and do
> not let it mess
> up what we have... Then we upgrade the IGates to "properly"

What do you mean "properly"? It is an important rule for APRS-IS that NO software on APRS-IS modify packet payloads. That means that local IGates are not to modify payloads in any way when retransmitting them on to RF. If you change the payload, you have now changed the packet, causing many more potential problems.

- > handle the
- > new non-compatible messages, rather than letting these
- > totally gyberish
- > fonts munge up the existing APRS system.

Because you don't understand a language doesn't mean that the message is total gibberish. You are trying to dictate a ban on using 8 bit characters in messages (what about status text and comment text?) to meet your personal preferences.

- > By using a new format, we "do-it-right" by introducing a new
- > format for
- > something that is totally incompatible with past practice and

But past practice has been to go ahead and use 8 bit characters anywhere where text can be used.

- > There is no way that I want to have GYBERISH messages and bulletins
- > cluttering up existing MESSAGE lists and traffic pages. If end user

Then put a switch in your software to not display packets with 8 bit characters.

- > software has the ability to display these graphical fonts,
- > then such end
- > user software is also easily able to take the new format,
- > convert to the
- > new FONT and then integrate it into the existing message displays as
- > desired, but the on-air formats must *not* be intermingled or
- > we destroy
- > existing systems.

Once again, a message is for communication between two stations. A bulletin is for broadcasting to a group something of interest to that group. In both cases, interception by non-involved persons should not be the overriding factor on forcing them to use a format incompatible with APRS-IS. While you can monitor everything that goes on in APRS, it should not be a mandatory factor that you understand everything.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 08:54:49 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA19447
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 08:54:45 -0500 (CDT)
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 15:55:55 +0200
Message-ID: <LYR11589-96034-2002.08.28-09.34.52--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
In-Reply-To: <LYR25861-96024-2002.08.28-08.52.44--
roger.bille#telia.com@lists.tappr.org>
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <FLEFLCKKDFDPHKNHJPEBAEBLEDAA.roger.bille@telia.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I think we should go the middle way :)

1. The APRS Spec should be updated to support 8-bit characters to fully support Western/European languages. This infact already works fine today in most applications. The spec should also define which characteraset and that should be ISO-8859-1 (Latin 1) or the new updated ISO-8859-15 that is proposed to replace ISO-8859-1. This will support: French, Spanish, Catalan, Basque, Portuguese, Italian, Albanian, Rhaeto-Romanic, Dutch, German, Danish, Swedish, Norwegian, Finnish, Faroese, Icelandic, Irish, Scottish and English. It also support Afrikaans and Swahili.

2. Add Bob's proposal for non ISO-8859-1(15) character sets. This include the mulibyte character sets used in Asia where more than one byte (normally 2) define the character or more correctly (I think) a phonetic part.

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 09:22:46 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA20939
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 09:22:40 -0500 (CDT)
Message-ID: <LYR11589-96040-2002.08.28-10.02.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Aug 2002 15:22:01 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
References: <LYR26815-96032-2002.08.28-09.30.19--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-96032-2002.08.28-09.30.19--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <BQtzK7AJyNb9EwE\$@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-96032-2002.08.28-09.30.19--roger#peaksys.co.uk@lists.tapr.org>, AE5PL Lists <HamLists@ametx.com> writes

[snip]

>It is an important rule for APRS-IS that
>NO software on APRS-IS modify packet payloads. That means that local
>IGates are not to modify payloads in any way when retransmitting them on
>to RF. If you change the payload, you have now changed the packet,
>causing many more potential problems.

[snip]

That reminds me of something I've kept meaning to comment on - Does anyone know where all the trailing spaces on frames in the internet data stream come from? Checking today, only about 10% of the frames have a

trailing space, but other times when I've checked it has been getting on for 20%. Something obviously adds them.

I know that trailing spaces usually won't be significant, and so can be stripped off, but surely it is avoidable corruption?

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 09:30:53 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA21177
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 09:30:46 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 09:30:38 -0500
Message-ID: <LYR11589-96041-2002.08.28-10.10.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
Thread-Index: AcJ0nn7lQIzIYjrNRjKhDaxRsT64wAABa8A
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04903D@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id JAA21177

> -----Original Message-----

> From: Roger Barker [<mailto:roger@peaksys.co.uk>]

> Posted At: Wednesday, August 28, 2002 9:24 AM
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>
> That reminds me of something I've kept meaning to comment on - Does
> anyone know where all the trailing spaces on frames in the
> internet data
> stream come from? Checking today, only about 10% of the frames have a
> trailing space, but other times when I've checked it has been
> getting on
> for 20%. Something obviously adds them.
>
> I know that trailing spaces usually won't be significant, and
> so can be
> stripped off, but surely it is avoidable corruption?

Take a look at the packets. I haven't, but I would venture to guess that users have put the trailing spaces in the packets (at the end of a comment, message, etc.). I am not aware of any software that adds trailing spaces. Doesn't mean it doesn't exist, just that I am not aware of any software that does this.

javAPRSSrvr does not strip off the trailing space because, as you say, "trailing spaces usually won't be significant". The key word here is "usually". It is my firm belief that server software leave the payloads completely untouched.

The corruption occurs when TNC's and other software arbitrarily strip trailing spaces off of a packet. javAPRSSrvr does account for this in the dupe check algorithm, but leaves the payload alone.

Good question :)

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 10:40:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA24915

for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 10:40:06 -0500 (CDT)
Date: Wed, 28 Aug 2002 11:39:48 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-96032-2002.08.28-09.30.19--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-96053-2002.08.28-11.20.15--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208281051290.13222-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Aug 2002, AE5PL Lists wrote:

> > And that is exactly the intent. Bringing in these new completely
> > incompatible FONTS must be in a *new* non compatbile format
> > as well. This
>
> Now we have gone from character sets to fonts. In either case, there
> are literally hundreds of these with many different variations. Trying
> to handle them within APRS will be virtually impossible.

I guess I was sloppy with the terms FONTS and CHARACTER SETS... I am
talking about character sets. Sorry...

> > way current IGates ignore the new format completely and do
> > not let it mess up what we have... Then we upgrade the IGates to
> > "properly"
>
> What do you mean "properly"? It is an important rule for APRS-IS that
> NO software on APRS-IS modify packet payloads. That means that local
> IGates are not to modify payloads in any way when retransmitting them on
> to RF. If you change the payload, you have now changed the packet,
> causing many more potential problems.

I am confused by what you are talking about here. Nothing that I am

talking about has anything to do with "modifying payloads".

> > handle the new non-compatible messages, rather than letting these
> > totally gyberish fonts munge up the existing APRS system.

(I meant character sets)...

> Because you don't understand a language doesn't mean that the message is
> total gibberish. You are trying to dictate a ban on using 8 bit
> characters in messages (what about status text and comment text?) to
> meet your personal preferences.

Nothing personal here at all. And you are misunderstanding the approach. Let me explain what I mean by gyberish. I don't mind at all seeing German, Italian, Greek, Spanish or any other message that uses only a difference in FONTS. That is just fine with me. What I don't want to see in the current message format are 8 bit gyberish that includes form feeds, line feeds and generates hyroglyphics all over the screen that mess up current systems, and are unreadable by someone even if he was conversant in that language.

> > By using a new format, we "do-it-right" by introducing a new
> > format for something that is totally incompatible with past practice
> > and
>
> But past practice has been to go ahead and use 8 bit characters anywhere
> where text can be used.

I Fully agree, as long as it does not contain control characters that produce garbled results in standard ASCII.

> > There is no way that I want to have GYBERISH messages and bulletins
> > cluttering up existing MESSAGE lists and traffic pages.
>
> Then put a switch in your software to not display packets with 8 bit
> characters.

Impossible. I can put a switch in what goes into code from this day forward, but I cannot change how things are displayed on thousands of copies currently in use and or how it is displayed on a Kenwood...

> > software has the ability to display these graphical fonts, then such
> > end user software is also easily able to take the new format, convert
> > to the new [character set] and then integrate it into the existing
> > message displays as desired, but the on-air formats must *not* be
> > intermingled or we destroy existing systems.
>
> Once again, a message is for communication between two stations. A

> bulletin is for broadcasting to a group something of interest to that
> group. In both cases, interception by non-involved persons should not
> be the overriding factor on forcing them to use a format incompatible
> with APRS-IS.

That is why it is a NEW proposal, to accomodate a NEW requirement. That is, the transmission of the three character sets of Japanese for example. When it is adopted as a NEW system for the end users, then the NEW format will be incorporated into NEW APRS-IS code as well... All of this without messing up the displays on what exists now and in the transistion...

> While you can monitor everything that goes on in APRS, it
> should not be a mandatory factor that you understand everything.

We agree 100%. But ANYTHING that is monitored must not damage older displays. That is my approach here. I have no objections to stuffing new stuff in old formats as long as it does not break existing APRS. If it breaks something old, then it must use a NEW format that can be accomodated into NEW software so that it can be FORWARD compatbile without being BACKWARD DAMAGING...

Oh by the way, this whole argument may become mute as I think I have just learned that the Japanese JASCII is 7 bit ASCII compatible and may not be a problem... THus it can go in existing message formats... which I hope is the case (as do you)... then we dont need a new format...

Bob

.

> > 73, >
> Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html

MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 10:42:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25002
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 10:42:02 -0500 (CDT)
Date: Wed, 28 Aug 2002 11:41:37 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-96034-2002.08.28-09.34.52--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-96054-2002.08.28-11.22.09--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208281141050.13222-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Yes, that is what I meant although I did not do as good of a job at explaining it as you did...

Thanks

Bob

On Wed, 28 Aug 2002, Roger Bille wrote:

> I think we should go the middle way :)
>
> 1. The APRS Spec should be updated to support 8-bit characters to fully
> support Western/European languages. This infact already works fine today in

> most applications. The spec should also define which character set and that
> should be ISO-8859-1 (Latin 1) or the new updated ISO-8859-15 that is
> proposed to replace ISO-8859-1. This will support: French, Spanish, Catalan,
> Basque, Portuguese, Italian, Albanian, Rhaeto-Romanic, Dutch, German,
> Danish, Swedish, Norwegian, Finnish, Faroese, Icelandic, Irish, Scottish and
> English. It also support Afrikaans and Swahili.
>
> 2. Add Bob's proposal for non ISO-8859-1(15) character sets. This include
> the multibyte character sets used in Asia where more than one byte (normally
> 2) define the character or more correctly (I think) a phonetic part.
>
> 73 de sm5nrk/Roger
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 10:47:05 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25465
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 10:46:56 -0500 (CDT)
Message-ID: <LYR11589-96055-2002.08.28-11.27.03--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 28 Aug 2002 16:44:57 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
References: <LYR26815-96041-2002.08.28-10.10.56--
roger@peaksys.co.uk@lists.tappr.org>

In-Reply-To: <LYR26815-96041-2002.08.28-10.10.56--roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <ATxDKIA5\$0b9EwUF@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-96041-2002.08.28-10.10.56--roger#peaksys.co.uk@lists.tappr.org>, AE5PL Lists <HamLists@ametx.com> writes
[snip]

>
>Take a look at the packets. I haven't, but I would venture to guess
>that users have put the trailing spaces in the packets (at the end of a
>comment, message, etc.).

I ain't that stoopid! ;-)

When I first noticed it, I had a good look at the packets. In particular I looked at -

- (a) Frames from Ultimeter wx stations.
- (b) UI-View beacon frames with the UI-View "tag" on the end.

Because spaces on either of those are quite definitely not added by the user.

Also, I've used three different telnet clients to collect data, and connected to several different servers, to try and make sure that the problem really exists, and isn't being caused by my test system.

If you collect a dump and run a filter on it outputting frames with a space at the end, you will find things like (sorry about the wrap) -

HB9IBI-1>APU24L,HB9IAC-4*,WIDE,qAS,HB9DQU-10:=4611.75N/00612.43EInternet Gateway {UIV32}

EA5AWF>aprdsMUEA,TRACE7-7,qAS:=3749.18N/00053.32W-Manolo,Box 26,San Javier c.p.30730 (MU) {UIV23}

W8MAP-1>APRS,W8MAP-4,W8APR*,qAS,w8gps:!!004500C70272009926F5030003A8----00EF0261000000059

W8MAP-1>APRS,W8MAP-4,W8APR*,qAS,w8gps:!!006400B80273009926F4030003A5-----
00EF026600000059

A little analysis showed -

(a) If there was a space at the end of one frame from a station, it was likely there would be a space at the end of all frames from that station. (See the two frames from W8MAP-1 - both have two spaces on the end.)

(b) There were some clusters of stations that always had spaces on the end of their frames. For example, at the time I looked at it, there were a group of 'SV' stations. However, there weren't any 'G' stations, suggesting that it wasn't being caused by UI-View IGATEs, which was the main thing I wanted to check at the time.

It seems likely that it is caused by a particular type of IGATE or internet server, probably only in certain circumstances. The spaces aren't in the packets before they go onto the internet, I've managed to check that out with one or two stations.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 10:47:27 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA25482
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 10:47:17 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 10:46:55 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-96056-2002.08.28-11.27.22--
lyris.aprsspec@tapr.org@lists.tapr.org>
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
Thread-Index: AcJ0qUS7xmaHHLUTS3GjIqel5s8vdgAACgeA
From: "AE5PL Lists" <HamLists@ametx.com>

Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04903F@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id KAA25482

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Wednesday, August 28, 2002 10:41 AM
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>
> > What do you mean "properly"? It is an important rule for
> APRS-IS that
> > NO software on APRS-IS modify packet payloads. That means
> that local
> > IGates are not to modify payloads in any way when
> retransmitting them on
> > to RF. If you change the payload, you have now changed the packet,
> > causing many more potential problems.
>
> I am confused by what you are talking about here. Nothing that I am
> talking about has anything to do with "modifying payloads".

Then explain what you meant by "properly".

> Nothing personal here at all. And you are misunderstanding the
> approach. Let me explain what I mean by gyberish. I dont mind at all
> seeing German, Italian, Greek, Spanish or any other message
> that uses only
> a difference in FONTS. THAT is just fine with me. What I
> dont want to
> see in the current message format are 8 bit gyberish that
> includes form
> feeds, line feeds and generates hyroglyphics all over the screen that
> mess up current systems, and are unreadable by someone even if
> he was conversant in that language.

But German, Italian, Greek, and Spanish use characters that are not in the 7-bit ASCII family. Form feeds, line feeds, and other control characters are all less than 0x20 (hex 20). So, a character with the most significant bit set does not generate these. However, if your

application is improperly stripping the most significant bit from the payload data, I can see how your application would not handle any 8 bit data correctly, regardless of packet type.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 10:59:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA26048
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 10:59:03 -0500 (CDT)
Subject: [aprsspec] RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 10:58:51 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-96059-2002.08.28-11.39.13--
lyris.aprsspec#tapr.org@lists.tapr.org>
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] RE: APRS non-ENGLISH formats
Thread-Index: AcJ0qkF1McGW59FLRoas40CDMdLveAAAAAN+g
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049040@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA26048

> -----Original Message-----

> From: Roger Barker [<mailto:roger@peaksys.co.uk>]

> Posted At: Wednesday, August 28, 2002 10:48 AM
> Subject: [aprsspec] RE: APRS non-ENGLISH formats
>
> I ain't that stoopid! ;-)

Never meant to imply you were :)

> When I first noticed it, I had a good look at the packets. In
> particular
> I looked at -
>
> (a) Frames from Ultimeater wx stations.
> (b) UI-View beacon frames with the UI-View "tag" on the end.
>
> Because spaces on either of those are quite definitely not
> added by the
> user.

Ah, but are they added by the programs generating those packets? That is a possibility too.

> (a) If there was a space at the end of one frame from a
> station, it was
> likely there would be a space at the end of all frames from that
> station. (See the two frames from W8MAP-1 - both have two
> spaces on the
> end.)
>
> (b) There were some clusters of stations that always had spaces on the
> end of their frames. For example, at the time I looked at it,
> there were
> a group of 'SV' stations. However, there weren't any 'G' stations,
> suggesting that it wasn't being caused by UI-View IGATEs,
> which was the
> main thing I wanted to check at the time.
>
> It seems likely that it is caused by a particular type of IGATE or
> internet server, probably only in certain circumstances. The spaces

I think, from your statements, that the software generating the packets needs to be looked at as well as IGate and server software. It is possible that a TNC setting might be adding white space or an IGate might be adding it. I can assure you that javAPRSSrvr is not adding the white space. javAPRSSrvr does ensure that every line is terminated with a CR/LF sequence. It may be that some software only handles CR or LF but not both. However, it is important due to many operating system differences that all APRS-IS software be able to handle both.

I can't speak for aprsD or AHub. It has been my experience, however, that AHub strips any trailing spaces from the payloads. Any chance of identifying some of the IGates using the q construct? Might help to identify what software they are running.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 11:05:16 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26412
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 11:05:07 -0500 (CDT)
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 11:04:43 -0500
MIME-Version: 1.0
Message-ID: <LYR11589-96061-2002.08.28-11.45.11--
lyris.aprsspec@tapr.org>
Content-Type: text/plain;
charset="us-ascii"
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Thread-Index: AcJOqYEN7AXNNnNMT5+Nx361BAZ85AAAmX1A
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049041@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA26412

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Wednesday, August 28, 2002 10:42 AM
> Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
>
> Yes, that is what I meant although I did not do as good of a job at
> explaining it as you did...
> Thanks
> Bob
>
> On Wed, 28 Aug 2002, Roger Bille wrote:
>
> > I think we should go the middle way :)
> >
> > 1. The APRS Spec should be updated to support 8-bit
> characters to fully
> > support Western/European languages. This infact already
> works fine today in
> > most applications. The spec should also define which
> character set and that
> > should be ISO-8859-1 (Latin 1) or the new updated
> ISO-8859-15 that is
> > proposed to replace ISO-8859-1. This will support: French,
> Spanish, Catalan,
> > Basque, Portuguese, Italian, Albanian, Rhaeto-Romanic,
> Dutch, German,
> > Danish, Swedish, Norwegian, Finnish, Faroese, Icelandic,
> Irish, Scottish and
> > English. It also support Afrikaans and Swahili.
> >
> > 2. Add Bob's proposal for non ISO-8859-1(15) character
> sets. This include
> > the multibyte character sets used in Asia where more than
> one byte (normally
> > 2) define the character or more correctly (I think) a phonetic part.

We have a problem with double byte characters anyway. Due to the assumption that data is received and transmitted via command mode on a TNC, there can't be any double byte characters allowed where one of the bytes is a control character. This is true regardless of packet type. For instance, APRS-IS assumes that all packets are terminated with a CR or LF (or both). If a double byte sequence with one of these characters occurred in the packet, you can see that packet would be lost/mangled. I think we need to specify, because of the above assumptions, that double byte character sets cannot be used.

73,

Pete Loveall AE5PL

<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 11:11:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA26793
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 11:11:28 -0500 (CDT)
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 18:12:42 +0200
Message-ID: <LYR11589-96063-2002.08.28-11.51.32--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
In-Reply-To: <LYR25861-96056-2002.08.28-11.27.22--
roger.bille@telia.com>
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <FLEFLCKKDFDPHKNHJPEBAECBEDAA.roger.bille@telia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> > Nothing personal here at all. And you are misunderstanding the
> > approach. Let me explain what I mean by gyberish. I dont mind at all
> > seeing German, Italian, Greek, Spanish or any other message
> > that uses only
> > a difference in FONTS. That is just fine with me. What I
> > dont want to
> > see in the current message format are 8 bit gyberish that
> > includes form

> > feeds, line feeds and generates hyroglyphics all over the screen that
> > mess up current systems, and are unreadable by someone even if
> > he was conversant in that language.
>
> But German, Italian, Greek, and Spanish use characters that are not in
> the 7-bit ASCII family. Form feeds, line feeds, and other control
> characters are all less than 0x20 (hex 20). So, a character with the
> most significant bit set does not generate these. However, if your
> application is improperly stripping the most significant bit from the
> payload data, I can see how your application would not handle any 8 bit
> data correctly, regardless of packet type.

For clarification. The ASCII table define printable characters as Pete say
from 0x20-0x7f. ISO 8859 define printable characters from 0xA0-0xFF so it
are these we actually are talking about to allow in the payload.

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 11:29:02 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA27758
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 11:28:57 -0500 (CDT)
Message-ID: <LYR11589-96069-2002.08.28-12.08.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 28 Aug 2002 17:28:13 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] RE: APRS non-ENGLISH formats
References: <LYR26815-96059-2002.08.28-11.39.13--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-96059-2002.08.28-11.39.13--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <QS4XaWAdoPb9Ewmy@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

In message <LYR26815-96059-2002.08.28-11.39.13--roger#peaksys.co.uk@lists.tappr.org>, AE5PL Lists <HamLists@ametx.com> writes

[snip]

>

>I think, from your statements, that the software generating the packets
>needs to be looked at as well as IGate and server software.

That point was answered in the last paragraph of my previous message
said -

"The spaces aren't in the packets before they go onto the internet, I've
managed to check that out with one or two stations."

> It is

>possible that a TNC setting might be adding white space or an IGate
>might be adding it.

IGATE - definitely yes. (I mentioned that possibility). TNC? Well, I've
used "normal" packet for 20 years, and used just about every type of TNC
going, and I've never seen a problem with added white space.

>I can't speak for aprsD or AHub. It has been my experience, however,
>that AHub strips any trailing spaces from the payloads. Any chance of
>identifying some of the IGates using the q construct? Might help to
>identify what software they are running.

As I said, run a filter outputting packets with a space on the end, and
you'll soon collect yourself a big dump. If you don't I'll be really
interested in why I see the spaces and you don't!

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 12:28:21 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00276
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 12:28:16 -0500 (CDT)
Date: Wed, 28 Aug 2002 13:27:55 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-96061-2002.08.28-11.45.11--bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-96078-2002.08.28-13.08.20--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208281318380.24069-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 28 Aug 2002, AE5PL Lists wrote:

> We have a problem with double byte characters anyway. Due to the
>
> occurred in the packet, you can see that packet would be lost/mangled.
> I think we need to specify, because of the above assumptions, that
> double byte character sets cannot be used.

It is the double-byte Japanese that is exactly why I brought this whole thing up in the first place (though I must not have done a good job of explaining it).... And that is why I initiall thought we will probably need a new format to handle such character sets and that it should not be stuffed into existing MESSAGE format.

It was this initial concern that caused me to suggewst that we might need a new format to isolate these frames from our existing code.

But I have since learned that the double byte Japanse charcaters that triggered the initial concern do also use only printable 8 bit bytes and so my concerns for control-code problems is probably not a problem.. Here is what I hve learned since my original sugestion:

Each Kanji code use 2 bytes.
The 1st byte is 0x81-0xFC.
The 2nd byte is 0x40-0xFC.

These are all printable ascii codes and therefore do not include any control codes and so therefore I think can be safely used within the existing APRS message format.

End of drill unless there are other character sets that will try to use control codes...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 12:41:59 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA00886
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 12:41:59 -0500 (CDT)
Message-ID: <LYR11589-96079-2002.08.28-13.22.01--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Bill Diaz <william.diaz@attbi.com>
Reply-To: Bill Diaz <william.diaz@attbi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 12:41:38 -0500
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <01C24E90.4101F660.william.diaz@attbi.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob,

Haven't worked with UniCode, so I don't have a clue. Will the kanji coded characters cause a problem with Packet lengths, or field lengths?

What will be the effect on code that looks for Message To call, and object name fields to be nine bytes in length?

Will total packet length increase appreciably? Note that some applications will reject any packet that is over 250 bytes in length.

Bill KC9XG

On Wednesday, August 28, 2002 12:28, Bob Bruninga [SMTP:bruninga@usna.edu] wrote:

> On Wed, 28 Aug 2002, AE5PL Lists wrote:

>

SNIP

> It was this initial concern that caused me to suggest that we might
> need a new format to isolate these frames from our existing code.

>

> But I have since learned that the double byte Japanese characters that
> triggered the initial concern do also use only printable 8 bit bytes and
> so my concerns for control-code problems is probably not a problem..

Here

> is what I have learned since my original suggestion:

>

> Each Kanji code uses 2 bytes.

> The 1st byte is 0x81-0xFC.

> The 2nd byte is 0x40-0xFC.

>

> These are all printable ASCII codes and therefore do not include any
> control codes and so therefore I think can be safely used within the
> existing APRS message format.

>

> End of drill unless there are other character sets that will try to use
> control codes...

>

> Bob

>

>

>

>

>

> ---

> You are currently subscribed to aprsspec as: kc9xg@attbi.com

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

> Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 13:05:13 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA02381
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 13:05:08 -0500 (CDT)
Message-ID: <LYR11589-96080-2002.08.28-13.45.16--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 28 Aug 2002 19:04:40 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
References: <LYR26815-96079-2002.08.28-13.22.01--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-96079-2002.08.28-13.22.01--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <9ch8JIA4CRb9EwD1@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-96079-2002.08.28-13.22.01--roger#peaksys.co.uk@lists.tappr.org>, Bill Diaz <william.diaz@attbi.com> writes
>Bob,
> Haven't worked with UniCode, so I don't have a clue. Will the kanji coded
>characters cause a problem with Packet lengths, or field lengths?
>
>What will be the effect on code that looks for Message To call, and object
>name fields to be nine bytes in length?

I think the first step in any processing would have to be to take the pairs of bytes from the AX25 frame and convert them into whatever double byte character set (DBCS) was being used, then measure field lengths in characters, not bytes, after you'd done that. Presumably Japanese TNC firmware handles the packing/unpacking?

>Will total packet length increase appreciably? Note that some applications
>will reject any packet that is over 250 bytes in length.

There would still be a restriction of 256 bytes on information field length, because that is part of the AX25 spec. (Unless we're talking internet only.)

I think we really need someone who is experienced with Japanese software

to comment on this.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 14:01:31 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA05481
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 14:01:27 -0500 (CDT)
Date: Wed, 28 Aug 2002 15:01:05 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Message-ID: <LYR11589-96093-2002.08.28-14.41.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208281500310.10343-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 28 Aug 2002, Bill Diaz wrote:

> Bob,
> Haven't worked with UniCode, so I don't have a clue. Will the kanji coded
> characters cause a problem with Packet lengths, or field lengths?

My only concern was that single byte character sets recognize the hard display limits in APRSdos of 67 bytes (64 in the Kenwood D700) and 45 in the D7... If it takes 134 double bytes to convey 67 KANJI characters then that is all right with me. BUT, since a KANJI character conveys more meaning per character, they dont need nearly as many for the same

amount of message, so it really doesnt matter especially since APRSdos and the Kenwoods are not going to display them anyway.

So I think that sticking to the 67 byte limit will not be too restrictive. Ill check with the Japanese...

Bob

>

> What will be the effect on code that looks for Message To call, and object
> name fields to be nine bytes in length?

>

> Will total packet length increase appreciably? Note that some applications
> will reject any packet that is over 250 bytes in length.

>

> Bill KC9XG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 16:21:48 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA15381
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 16:21:42 -0500 (CDT)
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 16:19:50 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Message-ID: <LYR11589-96109-2002.08.28-17.01.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Thread-Index: AcJ0uFrGhZpJWGSfTkWbuYHxiT/C1wAHv/gQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049042@ame-main.ametx.com>

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA15381

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]

> Posted At: Wednesday, August 28, 2002 12:29 PM

> Posted To: APRS Specification

> Conversation: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats

> Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats

>

> But I have since learned that the double byte Japanese characters that

> triggered the initial concern do also use only printable 8

> bit bytes and

> so my concerns for control-code problems is probably not a

> problem.. Here

> is what I have learned since my original suggestion:

>

> Each Kanji code use 2 bytes.

> The 1st byte is 0x81-0xFC.

> The 2nd byte is 0x40-0xFC.

>

> These are all printable ascii codes and therefore do not include any

> control codes and so therefore I think can be safely used within the

> existing APRS message format.

>

> End of drill unless there are other character sets that will

> try to use

> control codes...

I think you hit the nail on the head. Within the limits of AX.25 (256 byte Information fields), as long as control codes are not part of the character set, all is well (true, some systems impose further barriers to packet length such as the Kenwood radios and some software). For people using DBCS in their messages, they need to be aware of the APRS length restrictions apply total number of bytes, not characters. That would be something for the authors of software using those character sets to think about.

Glad this got sorted out. I want to see, like you, APRS used in as many different environments as possible. The limitation of no control codes, |, ~, or { in messages is a good one that should be observed in all packets to maintain as much compatibility as possible.

On to the next problem :) By the way, because of this discussion, I am updating javAPRS to display all comments and messages in the default character set of the system it is running on. Should help those international web pages.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 16:56:58 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA16878
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 16:56:55 -0500 (CDT)
Message-ID: <LYR11589-96114-2002.08.28-17.37.07--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Wed, 28 Aug 2002 22:55:12 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
References: <LYR26815-96109-2002.08.28-17.01.40--
roger@peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-96109-2002.08.28-17.01.40--
roger@peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <gZ\$robAAbUb9Eww0@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-96109-2002.08.28-17.01.40--roger@peaksys.co.uk@lists.tapr.org>, AE5PL Lists <HamLists@ametx.com> writes
[snip]
>For
>people using DBCS in their messages, they need to be aware of the APRS
>length restrictions apply total number of bytes, not characters.

Really? I would have thought that all the *APRS* length restrictions, as
opposed to the AX25 restrictions of 256 bytes in a frame information

field, seven bytes to an address, etc, apply to characters. Particularly since all those little diagrams in the APRS spec have comments like "max 67 chars".

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 17:23:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA17623
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 17:23:36 -0500 (CDT)
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] SV: SV: RE: APRS non-ENGLISH formats
Date: Thu, 29 Aug 2002 00:24:59 +0200
Message-ID: <LYR11589-96115-2002.08.28-18.03.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
In-Reply-To: <bb4qmus7qt92alfnidp6e5rdmql41t1p39@4ax.com>
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <FLEFLCKKDFDPHKNHJPEBMECKEDAA.roger.bille@telia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Or go directly to UTF-8 so you do not need to specify which codepage
> is used.

Good point. The UTF-8 encoding of Unicode will add an little extra load

since each non ASCII character will be coded in ≥ 2 bytes. I don't know how well Unicode is supported on the various platform we use, in particular Palm and PocketPC. ISO 8859 is for sure available. One thing is for sure it is not supported on Kenwood, 8859 isn't either only part of it and D7 and D700 are not consistent.

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 17:43:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA18302
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 17:43:28 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] new APRS message format
Date: Wed, 28 Aug 2002 17:42:33 -0500
References: <LYR19704-96093-2002.08.28-14.41.37--
jjeffers#aprsworld.net@lists.tapr.org>
In-Reply-To: <LYR19704-96093-2002.08.28-14.41.37--
jjeffers#aprsworld.net@lists.tapr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-96119-2002.08.28-18.23.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <20020828224234.4D82C2153E@agentorange.student.iastate.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I would like to see a message format that uses an Unicode (<http://www.unicode.org/>) message body. For those not familiar with Unicode, it is 16 bit (2-byte) per character. Java natively supports (uses?) Unicode. Plain ASCII is easy to encode, and if all you want is to display plain ASCII then that is easy to.

Unicode can be sent over 8-bit links using UTF-8 encoding. This solves all of the problems with existing TNC compatability.

Here is what I propose:

- 1) everything besides the message body be plain 8-bit ASCII
- 2) message identifier be a | (pipe), or any other single character that has not yet been used
- 3) 9 byte addressee, identical limitations to current addressee field
- 4) address / body seperator be the same as the message identifier
- 5) variable length, up to 240 bytes. Each unicode character is ≥ 1 && ≤ 4 bytes
- 6) body / sequence number seperator, same as the message identifier
- 7) 2 byte ASCII sequence designator

Sample message:

KB0THN>APRS:|KB0VY0-10|UTF-8 encoded unicode message|ab

comments?

-Jim KB0THN

PS - one way or another, I'll be happy to add support to aprsworld whatever this group decides.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 18:08:35 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA19603
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 18:08:31 -0500 (CDT)
Message-ID: <LYR11589-96134-2002.08.28-18.48.17--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 29 Aug 2002 00:06:35 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: new APRS message format
References: <LYR19704-96093-2002.08.28-14.41.37--
jjeffers#aprsworld.net@lists.tapr.org>
<LYR26815-96119-2002.08.28-18.23.20--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-96119-2002.08.28-18.23.20--
roger#peaksys.co.uk@lists.tapr.org>

MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <kox6EQA7dVb9EwjQ@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-96119-2002.08.28-18.23.20--roger#peaksys.co.uk@lists.tapr.org>, James Jefferson <jjeffers@aprsworld.net> writes
[snip]

>
>Sample message:
>
>KB0THN>APRS:|KB0VY0-10|UTF-8 encoded unicode message|ab
>
>comments?

Final comment before I go into read-only mode for this thread - If I was you, I would wait until you know what encoding/decoding a Japanese TNC does.

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 18:29:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20711
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 18:29:41 -0500 (CDT)
Subject: [aprsspec] RE: SV: SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 18:29:06 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Message-ID: <LYR11589-96141-2002.08.28-19.09.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
content-class: urn:content-classes:message

X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] SV: SV: RE: APRS non-ENGLISH formats
Thread-Index: AcJ04Z3osNQg1sE8TT6De9p4//XDmAACNqSA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE3A@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA20711

UTF-8 is 8 bit only. It is a subset of Unicode without the DBCS support.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Roger Bille [<mailto:roger.bille@telia.com>]
> Posted At: Wednesday, August 28, 2002 5:24 PM
> Subject: [aprsspec] SV: SV: RE: APRS non-ENGLISH formats
>
> Good point. The UTF-8 encoding of Unicode will add an little
> extra load
> since each non ASCII character will be coded in >= 2 bytes. I

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 18:34:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20867
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 18:34:14 -0500 (CDT)
Date: Wed, 28 Aug 2002 19:33:38 -0400 (EDT)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-96109-2002.08.28-17.01.40--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-96142-2002.08.28-19.14.15--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208281929000.1001-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Yep, looks like we are on the same page... (except as noted below (grin))

On Wed, 28 Aug 2002, AE5PL Lists wrote:

> people using DBCS in their messages, they need to be aware of the APRS
> length restrictions apply total number of bytes, not characters. That
> would be something for the authors of software using those character
> sets to think about.

I think this is still debatable to some degree and open for discussion. The 67 character limit imposed in the spec is the DISPLAY length, not necessarily the BYTE length (or at least that was the origin and intent of the restriction)... If it takes two bytes to make up a character, then that only counts as ONE, as far as the size of the display is concerned. So I would always call it a display limit, and not a BYTE limit...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 18:35:40 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA20901
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 18:35:39 -0500 (CDT)
Subject: [aprsspec] RE: new APRS message format
Date: Wed, 28 Aug 2002 18:35:07 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Message-ID: <LYR11589-96145-2002.08.28-19.15.41--
lyris.aprsspec#tappr.org@lists.tappr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] new APRS message format
Thread-Index: AcJ05JaH9/pf8vejR208CM87uXXHZQABh9uQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049044@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id SAA20901

As has been pointed out by Bob earlier, the need for a special format is not required. However, full Unicode is not compatible with APRS because some of its bytes are less than 0x20 (control characters). Unfortunately, there is no way to tell a TNC in command mode "ignore these characters because they are Unicode". So, to live within the confines of our current limitations on APRS and APRS-IS, it makes sense to say "any byte 0x20-0xff excluding |, ~, and {". The final exclusions are because many TNC's interpret those characters as commands.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: James Jefferson [<mailto:jjeffers@aprsworld.net>]

> Posted At: Wednesday, August 28, 2002 5:45 PM
> Subject: [aprsspec] new APRS message format
>
> I would like to see a message format that uses an Unicode
> (<http://www.unicode.org/>) message body. For those not
> familiar with Unicode,
> it is 16 bit (2-byte) per character. Java natively supports
> (uses?) Unicode.
> Plain ASCII is easy to encode, and if all you want is to
> display plain ASCII
> then that is easy to.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 18:41:00 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA21047
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 18:40:58 -0500 (CDT)
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Date: Wed, 28 Aug 2002 18:40:37 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Message-ID: <LYR11589-96152-2002.08.28-19.21.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
content-class: urn:content-classes:message
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Thread-Index: AcJ0639AsNAev/BHTiSa7aV0qqF5AQAAB8FA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049045@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA21047

> -----Original Message-----

> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Wednesday, August 28, 2002 6:35 PM
> Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
>
> On Wed, 28 Aug 2002, AE5PL Lists wrote:
>
> > people using DBCS in their messages, they need to be aware
> of the APRS
> > length restrictions apply total number of bytes, not
> characters. That
> > would be something for the authors of software using those character
> > sets to think about.
>
> I think this is still debatable to some degree and open for
> discussion.
> The 67 character limit imposed in the spec is the DISPLAY length, not
> necessarily the BYTE length (or at least that was the origin
> and intent
> of the restriction)... If it takes two bytes to make up a
> character, then that only counts as ONE, as far as the size of the
> display is concerned. So I would always call it a display
> limit, and not
> a BYTE limit...

Fine with me as long as they stay within the AX.25 spec which specifies 256 octets (bytes) maximum for a packet's information field. Don't know how other APRS software would handle the extended packet lengths.? I would also say that, if IGating is to be taken into consideration, then the third-party format restricts the total payload length to 256-28 bytes or 228 bytes (I think I did my math right :)

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Aug 28 21:34:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA02904
for <lyris.aprsspec@tapr.org>; Wed, 28 Aug 2002 21:34:14 -0500 (CDT)

Date: Wed, 28 Aug 2002 20:33:58 -0600 (MDT)
From: Joel Maslak <jmaslak@antelope.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: new APRS message format
In-Reply-To: <LYR21162-96119-2002.08.28-18.23.20--
jmaslak#antelope.net@lists.tappr.org>
Message-ID: <LYR11589-96166-2002.08.28-22.14.25--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Joel Maslak <jmaslak@antelope.net>
X-Message-Id: <Pine.LNX.4.44.0208282031050.27119-100000@bigsky.antelope.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 28 Aug 2002, James Jefferson wrote:

> Unicode can be sent over 8-bit links using UTF-8 encoding. This solves all of
> the problems with existing TNC compatability.

Actually, if you have 8-bit clean links, you can send Unicode directly.
UTF-8 does something different.

Unfortunately, although AX-25 should allow it fine, the current implementations are anything but 8-bit clean. I suspect that you could crash and otherwise harm 90% of APRS stations by sending 8-bit characters. I would be the first to applaud a move to 8-bit clean links, as I've seen plenty of problems with the current "sort of 7-bit" system that is in use - but I don't see a way of upgrading the existing hardware. And one of the reasons APRS is so popular is it is a fairly cheap thing to get involved in. Unfortunately that also means that we sacrifice some principles in the process.

--

Joel

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Aug 28 21:49:09 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA03501
for <lyris.aprsspec@tappr.org>; Wed, 28 Aug 2002 21:49:06 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: new APRS message format
Date: Wed, 28 Aug 2002 21:43:05 -0500
User-Agent: KMail/1.4.3
Cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
References: <LYR19704-96166-2002.08.28-22.14.25--
jjeffers#aprsworld.net@lists.tappr.org>
In-Reply-To: <LYR19704-96166-2002.08.28-22.14.25--
jjeffers#aprsworld.net@lists.tappr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-96171-2002.08.28-22.29.15--
lyris.aprsspec#tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
X-Message-Id: <200208282143.05484.jjeffers@aprsworld.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> Actually, if you have 8-bit clean links, you can send Unicode directly.
> UTF-8 does something different.

UTF-8 is designed to be interoperable with ASCII directly. IE normal ASCII characters are encoded as a single byte.

In our application UTF-8 will make sure that no printable and bellow characters will be changed. Only things with the high bit set will be able to contain Unicode.

-Jim

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Aug 29 08:50:56 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA09728
for <lyris.aprsspec@tappr.org>; Thu, 29 Aug 2002 08:50:54 -0500 (CDT)
Date: Thu, 29 Aug 2002 09:50:10 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
In-Reply-To: <LYR11586-96080-2002.08.28-13.45.16--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-96266-2002.08.29-09.31.04--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0208290944470.7081-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 28 Aug 2002, Roger Barker wrote:

> I think we really need someone who is experienced with Japanese software
> to comment on this.

I got the answers...

Kanji is a two-byte printable ascii code and it involves a 3 byte ESC-IN
and an ESC-OUT code so it can be intermingled with plain ASCII... So even
if they took the 67 display limit as a character limit, that still allows
30 KANJI characters..

And as an aside, a common school test in Japan is to have them say
ANYTHING in 20 KANJI characters or less...

So for now, this issue is resolved to my satisfaction... thanks

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Aug 29 21:59:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA18533
for <lyris.aprsspec@tapr.org>; Thu, 29 Aug 2002 21:59:51 -0500 (CDT)
Date: Fri, 30 Aug 2002 11:59:36 +0900
From: Jim Tittsler <7J1AJH@OnJapan.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: SV: RE: APRS non-ENGLISH formats
Message-ID: <LYR11589-96389-2002.08.29-22.40.03--
lyris.aprsspec@tapr.org@lists.tapr.org>
References: <LYR11586-96061-2002.08.28-11.45.11--
bruninga@nadn.navy.mil@lists.tapr.org>
<LYR25490-96078-2002.08.28-13.08.20--7j1ajh#onjapan.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline
User-Agent: Mutt/1.2.5.1i
In-Reply-To:
<LYR25490-96078-2002.08.28-13.08.20--7j1ajh#onjapan.net@lists.tapr.org>; from
bruninga@usna.edu on Wed, Aug 28, 2002 at 01:27:55PM -0400
Organization: 7J1AJH/AI8A Tokyo
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Jim Tittsler <7J1AJH@OnJapan.net>
X-Message-Id: <20020830115936.B4044@server.onjapan.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, Aug 28, 2002 at 01:27:55PM -0400, Bob Bruninga wrote:

> But I have since learned that the double byte Japanese charcaters that
> triggered the initial concern do also use only printable 8 bit bytes and
> so my concerns for control-code problems is probably not a problem.. Here
> is what I hve learned since my original sugestion:
>
> Each Kanji code use 2 bytes.
> The 1st byte is 0x81-0xFC.
> The 2nd byte is 0x40-0xFC.

There are three different encodings in common use for Japanese. It sounds like you are describing Shift-JIS (most common in the Microsoft world; I believe the 1st byte is actually between 0x81-0x9f or 0xe0-0xef... so as has been pointed out, the path needs to be 8-bit clean or they start looking like control codes).

EUC-JP (most common in the Unix world) is beloved by programmers since both bytes are in the 0xa1~0xfe range.

ISO-2022-JP fits in 7-bits with escapes to switch sets.

<http://web.lfw.org/text/jp.html> is a quick reference to Japanese encoding.

73, Jim 7J1AJH/AI8A Tokyo

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 3 17:06:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA09803
for <lyris.aprsspec@tapr.org>; Tue, 3 Sep 2002 17:06:26 -0500 (CDT)
Message-ID: <LYR11589-97114-2002.09.03-17.46.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Paula Dowie" <g8pzt@blueyonder.co.uk>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Confused..
Date: Tue, 3 Sep 2002 23:06:09 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Paula Dowie" <g8pzt@blueyonder.co.uk>
X-Message-Id: <004b01c25396\$4a33be20\$b0ce1f3e@gb7pzt.ampr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can anyone please tell me what the "qAS" field means in the following frame
obtained from an internet APRSserver? It is typical of many such frames.

G1GQJ>CQ,TRACE5-5,WIDE7-7,qAS,G0RDI:=5142.02N/00055.08WKCathy - Chinnor,Oxon
{UIV32}

73, Paula

g8pzt@blueyonder.co.uk
<http://www.pzt.org.uk>
Telnet: g8pzt.ath.cx:23 (Kidderminster router:)
Telnet: g8pzt.ath.cx:1448 (APRS server)
Telnet: g8pzt.ath.cx:3600 (Chat server)
Telnet: gb7pzt.dyndns.org:88 (gb7pzt bbs user access)
Telnet gb7pzt.dyndns.org:6300 (gb7pzt bbs forwarding access)
<http://gb7pzt.dyndns.org/cgi-bin/menu.pz> (GB7PZT web interface)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 3 17:16:18 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10380
for <lyris.aprsspec@tapr.org>; Tue, 3 Sep 2002 17:16:12 -0500 (CDT)
X-Sent: 3 Sep 2002 22:16:02 GMT
Date: Tue, 3 Sep 2002 18:16:09 -0400
From: Steve Dimse <k4hg@tapr.org>
Subject: [aprsspec] Re: Confused..
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
X-Priority: 3
In-Reply-To: <LYR30403-97114-2002.09.03-17.46.52--k4hg#tapr.org@lists.tapr.org>
Message-ID: <LYR11589-97117-2002.09.03-17.56.38--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; Charset=US-ASCII
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Steve Dimse <k4hg@tapr.org>
X-Message-Id: <r01050300-1020-C019767ABF8A11D68A8B00039345286E@[192.168.1.100]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 9/3/02 at 11:06 PM g8pzt@blueyonder.co.uk (Paula Dowie) sent:

>Can anyone please tell me what the "qAS" field means in the following frame
>obtained from an internet APRSserver? It is typical of many such frames.
>
see:

<http://www.aprs-is.net/q.htm>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 3 17:17:03 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10406
for <lyris.aprsspec@tappr.org>; Tue, 3 Sep 2002 17:16:59 -0500 (CDT)
Message-ID: <LYR11589-97118-2002.09.03-17.57.13--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 3 Sep 2002 23:16:09 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Confused..
References: <LYR26815-97114-2002.09.03-17.46.52--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-97114-2002.09.03-17.46.52--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <t0jYtIApSTd9EwQM@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-97114-2002.09.03-17.46.52--roger#peaksys.co.uk@lists.tappr.org>, Paula Dowie <g8pzt@blueyonder.co.uk> writes
>Can anyone please tell me what the "qAS" field means in the following frame
>obtained from an internet APRSserver? It is typical of many such frames.
>
>G1GQJ>CQ,TRACE5-5,WIDE7-7,qAS,G0RDI:=5142.02N/00055.08WKCathy - Chinnor,Oxon
>{UIV32}

See <http://www.digitaldune.net/~ahubwest/Q.html>

--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Sep 6 18:05:06 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA29086

for <lyris.aprsspec@tapr.org>; Fri, 6 Sep 2002 18:05:04 -0500 (CDT)
Message-ID: <LYR11589-97473-2002.09.06-18.45.36--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Paula Dowie" <g8pzt@blueyonder.co.uk>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] No longer confused
Date: Sat, 7 Sep 2002 00:05:49 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Paula Dowie" <g8pzt@blueyonder.co.uk>
X-Message-Id: <003001c255f9\$f2f42760\$b0ce1f3e@gb7pzt.ampr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thank you to all who sent me the link to the page about the q construct.

73, Paula

g8pzt@blueyonder.co.uk
<http://www.pzt.org.uk>
Telnet: g8pzt.ath.cx:23 (Kidderminster router:)
Telnet: g8pzt.ath.cx:1448 (APRS server)
Telnet: g8pzt.ath.cx:3600 (Chat server)
Telnet: gb7pzt.dyndns.org:88 (gb7pzt bbs user access)
Telnet gb7pzt.dyndns.org:6300 (gb7pzt bbs forwarding access)
<http://gb7pzt.dyndns.org/cgi-bin/menu.pz> (GB7PZT web interface)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Sep 7 21:16:42 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA08365
for <lyris.aprsspec@tapr.org>; Sat, 7 Sep 2002 21:16:34 -0500 (CDT)
X-Sent: 8 Sep 2002 02:16:10 GMT
Message-ID: <LYR11589-97609-2002.09.07-21.57.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97117-2002.09.03-17.56.38--
kd4rdb#netzero.com@lists.tapr.org>
Subject: [aprsspec] Request for comment? Shelter list
Date: Sat, 7 Sep 2002 22:15:58 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Wes Johnston" <kd4rdb@netzero.com>
X-Message-Id: <005101c256dd\$abbdd0a0\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have written the Sprouls to ask for their help (or any work previously done) for the shelters list. After about a month and no response, I have come up with a few things.

Goals:

- 1.I want to develop a method which is interoperable across APRS and PSK31.
- 2.A shelter list is simply a collection of data. Alpha and numeric characters to be filled in on a form.
- 3.The forms are already in use. Every agency uses different forms, so we need a way to specify a particular form and numbered fields
- 4.All data needs to be human readable - ie compatible with PSK31's character set.
- 5.Data needs to have the ability to be fragmented into small (80byte or is it 67 byte?) chunks and reassembled on the other end.
- 6.PSK data needs a checksum. I suggest the plaintext hexadecimal XOR system used in NMEA data.

Protocol:

Data will be modeled after GPS telemetry. \$SL will indicate this is a Shelter List message. Comma delimited fields. There should

be a header which indicates this is a shelter list formatted message. After the header is the agency's form number. Next will come a numeric field indicating the field on the form, then a comma, then the alpha or numeric characters for the contents of that field. These fields will continue repeating until the maximum length for an APRS formatted message is reached. In the case of PSK31 formatted data, the "*" character will be appended followed by a NMEA compatible checksum.

In the event all fields do not fit in a single aprs message, additional aprs messages can be sent following the same format. The only difference will be that different field numbers will be used.

Note that the fields on the form do not need to be transmitted in any order at all.

There is no need to define the number of fields on a form. The recipient of the message will know this since he will be filling out the form initially by hand (later with a template in a version of APRS) and will know when he has received all fields.

Example:

Form "TEST1"

The _____ jumped over the _____. Maximum population for the _____ shelter is _____. Present population is _____.

First, we have to number all the fields.

Form "TEST1"

The __1__ jumped over the __2__ . Maximum population for the __3__ shelter is __4__ . Present population is __5__.

Since a template is stored at the receiving end, we only need to send an APRS bulletin.

```
$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103
```

This is decoded on the other end by simply matching fields...

the form is of course, TEST1.txt

The __cow__ jumped over the __moon__ . Maximum population for the __Charleston SC__ shelter is __500__ . Present population is __103__.

Of course,

```
$SL,TEST1,5,103,1,cow,4,500,3,Charleston SC,2,moon
```

has the same meaning.

What do you think?

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 09:31:57 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA12951
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 09:31:54 -0500 (CDT)

X-Sent: 8 Sep 2002 14:31:39 GMT

Message-ID: <LYR11589-97655-2002.09.08-10.12.32--

lyris.aprsspec@tapr.org@lists.tapr.org>

From: "Wes Johnston" <kd4rdb@netzero.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR11698-97117-2002.09.03-17.56.38--

kd4rdb@netzero.com@lists.tapr.org> <LYR11698-97609-2002.09.07-21.57.00--

kd4rdb@netzero.com@lists.tapr.org>

Subject: [aprsspec] Re: Request for comment? Shelter list

Date: Sun, 8 Sep 2002 10:31:27 -0400

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

Reply-To: "Wes Johnston" <kd4rdb@netzero.com>

X-Message-Id: <002801c25744\$6af92260\$152b262c@stephanie>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

I'm going to add one thing to the spec.... we need to include a time and date stamp.... the standard APRS formatted 4digit time with 2 digit date will do fine. This additional field will permit easier matching on the receiving end when, for example, a copy of a form is sent out once an hour. This will permit trending on the RX end by stuffing the data into an array (or database) in an orderly fashion indexed by date/time.

\$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

becomes

\$SL,081423z,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

or

\$SL,081023/,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

On the receiving end:

At this point what we need is to have a standardized template format. I would like to suggest seeding a text file with "&&x&&" where "&&" is an escape character unlikely to occur in day to day text, and "x" is the field number. Of course the file name is the form name. For a form named "TEST1" there is a file named "TEST1.TXT" at every EOC.

Text file named TEST1.TXT

The &&1&& jumped over the &&2&&. Maximum population for the &&3&& shelter is &&4&&. Present population is &&5&&.

Wes

----- Original Message -----

From: "Wes Johnston" <kd4rdb@netzero.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>

Sent: Saturday, September 07, 2002 10:15 PM

Subject: [aprsspec] Request for comment? Shelter list

> I have written the Sprouls to ask for their help (or any work previously done) for the shelters list. After about a month and no
> response, I have come up with a few things.

>

> Goals:

> 1.I want to develop a method which is interoperable across APRS and PSK31.

> 2.A shelter list is simply a collection of data. Alpha and numeric characters to be filled in on a form.

> 3.The forms are already in use. Every agency uses different forms, so we need a way to specify a particular form and numbered

> fields

> 4.All data needs to be human readable - ie compatible with PSK31's character set.

> 5.Data needs to have the ability to be fragmented into small (80byte or is it 67 byte?) chunks and reassembled on the other end.

> 6.PSK data needs a checksum. I suggest the plaintext hexadecimal XOR system used in NMEA data.

>

> Protocol:

> Data will be modeled after GPS telemetry. \$SL will indicate this is a Shelter List message. Comma delimited fields. There

should

> be a header which indicates this is a shelter list formatted message. After the header is the agency's form number. Next will

come

> a numeric field indicating the field on the form, then a comma, then the alpha or numeric characters for the contents of that field.

> These fields will continue repeating until the maximum length for an APRS formatted message is reached. In the case of PSK31

> formatted data, the "*" character will be appended followed by a NMEA compatible checksum.

>

> In the event all fields do not fit in a single aprs message, additional aprs messages can be sent following the same format. The

> only difference will be that different field numbers will be used.

>

> Note that the fields on the form do not need to be transmitted in any order at all.

>

> There is no need to define the number of fields on a form. The recipient of the message will know this since he will be filling out

> the form initially by hand (later with a template in a version of APRS) and will know when he has received all fields.

>

> Example:

> Form "TEST1"

> The _____ jumped over the _____. Maximum population for the _____ shelter is _____ . Present population is _____.

>

> First, we have to number all the fields.

> Form "TEST1"

> The __1__ jumped over the __2__ . Maximum population for the __3__ shelter is __4__ . Present population is __5__.

>

> Since a template is stored at the receiving end, we only need to send an APRS bulletin.

> \$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

>

> This is decoded on the other end by simply matching fields...

> the form is of course, TEST1.txt

> The __cow__ jumped over the __moon__ . Maximum population for the __Charleston SC__ shelter is __500__ . Present population is

> __103__.

>

> Of course,

> \$SL,TEST1,5,103,1,cow,4,500,3,Charleston SC,2,moon

> has the same meaning.

>
> What do you think?
>
>
> ---
> You are currently subscribed to aprsspec as: kd4rdb@netzero.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 8 09:50:05 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA13855
for <lyris.aprsspec@tappr.org>; Sun, 8 Sep 2002 09:49:59 -0500 (CDT)
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 09:49:48 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-97656-2002.09.08-10.30.38--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-MIMEOLE: Produced By Microsoft Exchange V6.0.6249.0
Content-Class: urn:content-classes:message
Thread-Topic: [aprsspec] Re: Request for comment? Shelter list
Thread-Index: AcJXRIN5SH/Ht/DcTKuHo4nMdDPaIwAAau9w
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC049064@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id JAA13855

Instead of adding a new meaning to the \$ data type, why not use the

user-defined data type of { ? Throwing in a new meaning to the \$ data type might break some APRS software. The user-defined data type would be perfect for this application as you could have special software look for these packets without potentially breaking other software. Try {SL for User ID=S (Shelter) and Type=L (List)

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Wes Johnston [<mailto:kd4rdb@netzero.com>]

> Posted At: Sunday, September 08, 2002 9:32 AM

> Subject: [aprsspec] Re: Request for comment? Shelter list

>

> \$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

>

> > Data will be modeled after GPS telemetry. \$SL will

> indicate this is a Shelter List message. Comma delimited

> fields. There

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 10:31:48 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA15358

for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 10:31:22 -0500 (CDT)

Message-ID: <LYR11589-97671-2002.09.08-11.11.54--

lyris.aprsspec#tapr.org@lists.tapr.org>

From: "B. Hildebrand" <bhildebrand@earthlink.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

References: <LYR11698-97117-2002.09.03-17.56.38--

kd4rdb#netzero.com@lists.tapr.org> <LYR11698-97609-2002.09.07-21.57.00--

kd4rdb#netzero.com@lists.tapr.org> <LYR11585-97655-2002.09.08-10.12.32--

bhildebrand#earthlink.net@lists.tapr.org>

Subject: [aprsspec] Re: Request for comment? Shelter list

Date: Sun, 8 Sep 2002 08:30:41 -0700

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

X-Priority: 3

X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <00d001c2574c\$b157af80\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

For historical interest, here is a file I have dated 9/1997:

Position

@POS,date,utc time,lat,long,power,gain,height,symbol,text
@POS,970627,2103,3401.234,-11720.345,,,A1,KH2Z %Alert
note that power, gain and height are null

Fixed station Position (date and time = null)

@POS,,,3401.234,-11720.345,100,8,75,A1,High Mountain Digipeater Covering all
of So.Cal.

Alternate Position for moving stations

@TRK,date,time,lat,long,speed,direction,altitude,symbol,text

Message

@MSG,date, utc time,Lat,Long,TO,msg number,symbol,text
@MSG,970627,2103,KH2Z,1,,%Hello world. This is just "brain storm'in"
Short Message with Date and Time null.
@MSG,,,KH2Z,1,A1,%Hello world

Weather

@WX,date,utc time,lat,long,wind speed, direction,gusts,tempurature,rain
fall,precipitation,P,humidity,barometric pressure,symbol,text
@WX,06291845,3401.234,-11720.45,0,0,10,80,0,0,0,38,1012,A9,Davis

(_06291845c000s000g000t000r000p000P000h00b000000Davis)

Short Weather

@WX,06291845,3401.23,-11720.345,8,276,,76
Missing fields are concidered null.

Object

@OBJ,date,utc time,lat,long,speed,direction,obj name,symbol,text
@OBJ,970627,2103,3401.234,-11720.23445,20,330,Andrew,A4,Peak Winds 160 mph

@OBJ,,,3401.234,-11720.234,,,Race Start,Z3,So Cal Marathon

Telemetry

@TEL,date,time,lat,long,number of

fields,field1,field2,field3,...,fieldN,text

@TEL,970628,1311,3401.23,-11720.23,4,35,-24,17,245,Remote Thrust Fault

Seismic Monitor

Map Object

@MO,count,number,Lat,Long,Name,Scale,X1,Y1,X2,Y2,X3,Y3,,,,,,,,,

Count would be number of sentences in complete record

Number would be which sentence number this is in total record.

Query

@Q,Type,Lat,Long,Range,Call,text

?APRS?

@Q,POS,,,,,

Directed ?APRS? (WB4APR ?APRS?

@Q,POS,,,,WB4APR

Range ?APRS? lat long range

@Q,POS,,lat,long,range,,,

Query Status

@Q,Status,,,,,

@Q,Status,,,,WB4APR,

Query Weather

@Q,WX,,,,WB4ARR,

Query Destination

@Q,Dest,,,,WB4APR,

Query Protocol Format - Returns format of POS sentence

@Q,Protocol,,,,WB4APR,POS

Reply

@R,type,utc date,utc time,lat,long,symbol,text

Respond to a @Q (?APRS?)

@R,POS,,,3401.234,-11720.234,,,

Direction Finding

@DF,date,utc time,lat,long,bearing,sig quality,text

@DF,,,3401.345,-11720.23,273,7,

Warning/Alarms/Alert Maybe this is really an object...

@W,date,utc time,lat,long,call,type,text

@W,970627,2127,,,,Road,%Warning Bridge under water!

An alert with lat/long would specify the location of an alarm situation.

No position data would be a general alarm.

----- Original Message -----

From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Sent: Sunday, September 08, 2002 7:31 AM
Subject: [aprsspec] Re: Request for comment? Shelter list

> I'm going to add one thing to the spec.... we need to include a time and date stamp.... the standard APRS formatted 4digit time with
> 2 digit date will do fine. This additional field will permit easier matching on the receiving end when, for example, a copy of a
> form is sent out once an hour. This will permit trending on the RX end by stuffing the data into an array (or database) in an
> orderly fashion indexed by date/time.

>
> \$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

>
> becomes

>
> \$SL,081423z,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

> or
> \$SL,081023/,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103

>
> On the receiving end:

> At this point what we need is to have a standardized template format. I would like to suggest seeding a text file with "&&x&&"
> where "&&" is an escape character unlikely to occur in day to day text, and "x" is the field number. Of course the file name is the
> form name. For a form named "TEST1" there is a file named "TEST1.TXT" at every EOC.

>
> Text file named TEST1.TXT
> The &&1&& jumped over the &&2&&. Maximum population for the &&3&& shelter is &&4&&. Present population is &&5&&.

>
> Wes

>
>
>
> ----- Original Message -----

> From: "Wes Johnston" <kd4rdb@netzero.com>
> To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
> Sent: Saturday, September 07, 2002 10:15 PM
> Subject: [aprsspec] Request for comment? Shelter list

>
>
> > I have written the Sprouls to ask for their help (or any work previously done) for the shelters list. After about a month and no

> > response, I have come up with a few things.

> >

> > Goals:

> > 1.I want to develop a method which is interoperable across APRS and PSK31.

> > 2.A shelter list is simply a collection of data. Alpha and numeric characters to be filled in on a form.

> > 3.The forms are already in use. Every agency uses different forms, so we need a way to specify a particular form and numbered

> > fields

> > 4.All data needs to be human readable - ie compatible with PSK31's character set.

> > 5.Data needs to have the ability to be fragmented into small (80byte or is it 67 byte?) chunks and reassembled on the other end.

> > 6.PSK data needs a checksum. I suggest the plaintext hexadecimal XOR system used in NMEA data.

> >

> > Protocol:

> > Data will be modeled after GPS telemetry. \$SL will indicate this is a Shelter List message. Comma delimited fields. There

> should

> > be a header which indicates this is a shelter list formatted message. After the header is the agency's form number. Next will

> come

> > a numeric field indicating the field on the form, then a comma, then the alpha or numeric characters for the contents of that

> field.

> > These fields will continue repeating until the maximum length for an APRS formatted message is reached. In the case of PSK31

> > formatted data, the "*" character will be appended followed by a NMEA compatible checksum.

> >

> > In the event all fields do no fit in a single aprs message, additional aprs messages can be sent following the same format. The

> > only difference will be that different field numbers will be used.

> >

> > Note that the fields on the form do not need to be transmitted in any order at all.

> >

> > There is no need to define the number of fields on a form. The reciepent of the message will know this since he will be filling

> out

> > the form initially by hand (later with a template in a version of APRS) and will know when he has received all fields.

> >

> > Example:

> > Form "TEST1"

> > The _____ jumped over the _____ . Maximum population for the _____

```

shelter is ____ . Present population is _____.
> >
> > First, we have to number all the fields.
> > Form "TEST1"
> > The __1__ jumped over the __2__ . Maximum population for the __3__
shelter is _4__ . Present population is __5__.
> >
> > Since a template is stored at the receiving end, we only need to send an
APRS bulletin.
> > $SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103
> >
> > This is decoded on the other end by simply matching fields...
> > the form is of course, TEST1.txt
> > The __cow__ jumped over the __moon__ . Maximum population for the
__Charleston SC__ shelter is _500__ . Present population is
> > __103__.
> >
> > Of course,
> > $SL,TEST1,5,103,1,cow,4,500,3,Charleston SC,2,moon
> > has the same meaning.
> >
> > What do you think?
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: kd4rdb@netzero.com
> > To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tappr.org
> > Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
> >
> >
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

```

```

---
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

```

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 8 11:28:16 2002
 Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA18438
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 11:28:09 -0500 (CDT)
X-Sent: 8 Sep 2002 16:27:52 GMT
Message-ID: <LYR11589-97680-2002.09.08-12.08.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97656-2002.09.08-10.30.38--
kd4rdb#netzero.com@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 12:28:41 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Wes Johnston" <kd4rdb@netzero.com>
X-Message-Id: <005501c25754\$cb3a9a40\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Would this data type {SL be entered in the text part of an aprs message? The reason I ask is that I'd like this to be implemented relatively quickly and since all versions of aprs have a way to enter messages.....implementation time is 0.

Wes

----- Original Message -----

From: "AE5PL Lists" <HamLists@ametx.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Sunday, September 08, 2002 10:49 AM
Subject: [aprsspec] Re: Request for comment? Shelter list

Instead of adding a new meaning to the \$ data type, why not use the user-defined data type of { ? Throwing in a new meaning to the \$ data type might break some APRS software. The user-defined data type would be perfect for this application as you could have special software look for these packets without potentially breaking other software. Try {SL for User ID=S (Shelter) and Type=L (List)

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Wes Johnston [<mailto:kd4rdb@netzero.com>]
> Posted At: Sunday, September 08, 2002 9:32 AM
> Subject: [aprsspec] Re: Request for comment? Shelter list
>
> \$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103
>
> > Data will be modeled after GPS telemetry. \$SL will
> indicate this is a Shelter List message. Comma delimited
> fields. There

You are currently subscribed to aprsspec as: kd4rdb@netzero.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 11:39:02 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA18872
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 11:38:50 -0500 (CDT)
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 11:38:39 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-97682-2002.09.08-12.19.30--
lyris.aprsspec@tapr.org>
X-MIMEOLE: Produced By Microsoft Exchange V6.0.6249.0
Content-Class: urn:content-classes:message
Thread-Topic: [aprsspec] Re: Request for comment? Shelter list
Thread-Index: AcJXVKNKpmscEchNETQKWgKFZBChs9AAAK0vw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE92@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id LAA18872

No. This has nothing to do with messaging. You can do anything you want with message text. This has to do with packet data types. My understanding was that you were trying to use the \$ data type for this application. If you are using \$SL in the message, then have at it. But, if you are trying to use the \$ as a data type for the packets, I recommend using the { data type since that is what the user-defined data type is meant to be used for, not the \$ data type.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Wes Johnston [<mailto:kd4rdb@netzero.com>]

> Posted At: Sunday, September 08, 2002 11:29 AM

> Subject: [aprsspec] Re: Request for comment? Shelter list

>

> Would this data type {SL be entered in the text part of an
> aprs message? The reason I ask is that I'd like this to be
> implemented

> relatively quickly and since all versions of aprs have a way
> to enter messages.....implementation time is 0.

>

> Wes

> ----- Original Message -----

> From: "AE5PL Lists" <HamLists@ametx.com>

> To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

> Sent: Sunday, September 08, 2002 10:49 AM

> Subject: [aprsspec] Re: Request for comment? Shelter list

>

>

> Instead of adding a new meaning to the \$ data type, why not use the
> user-defined data type of { ? Throwing in a new meaning to the \$ data
> type might break some APRS software. The user-defined data type would

> be perfect for this application as you could have special
> software look
> for these packets without potentially breaking other
> software. Try {SL
> for User ID=S (Shelter) and Type=L (List)
>
> 73,
>
> Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 11:57:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA19247
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 11:57:23 -0500 (CDT)
X-Sent: 8 Sep 2002 16:57:12 GMT
Message-ID: <LYR11589-97683-2002.09.08-12.38.02--
lyris.aprsspec@tapr.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97682-2002.09.08-12.19.30--
kd4rdb@netzero.com>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 12:57:15 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Wes Johnston" <kd4rdb@netzero.com>
X-Message-Id: <008001c25758\$c94efa10\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I see... well until the authors include this as a message type (wouldn't it be cool to have the form displayed with the blanks ready to be filled in by tabbing between fields?) in your favorite aprs program, I don't see any reason not to use your suggestion of {SL as the identifier for a shelter list formatted message.

Thanks for your input!! I'm off and running!
Wes

----- Original Message -----

From: "AE5PL Lists" <HamLists@ametx.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Sent: Sunday, September 08, 2002 12:38 PM
Subject: [aprsspec] Re: Request for comment? Shelter list

No. This has nothing to do with messaging. You can do anything you want with message text. This has to do with packet data types. My understanding was that you were trying to use the \$ data type for this application. If you are using \$SL in the message, then have at it. But, if you are trying to use the \$ as a data type for the packets, I recommend using the { data type since that is what the user-defined data type is meant to be used for, not the \$ data type.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----

> From: Wes Johnston [<mailto:kd4rdb@netzero.com>]
> Posted At: Sunday, September 08, 2002 11:29 AM
> Subject: [aprsspec] Re: Request for comment? Shelter list

>

> Would this data type {SL be entered in the text part of an
> aprs message? The reason I ask is that I'd like this to be
> implemented
> relatively quickly and since all versions of aprs have a way
> to enter messages.....implementation time is 0.

>

> Wes

> ----- Original Message -----

> From: "AE5PL Lists" <HamLists@ametx.com>
> To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
> Sent: Sunday, September 08, 2002 10:49 AM
> Subject: [aprsspec] Re: Request for comment? Shelter list

>
>
> Instead of adding a new meaning to the \$ data type, why not use the
> user-defined data type of { ? Throwing in a new meaning to the \$ data
> type might break some APRS software. The user-defined data type would
> be perfect for this application as you could have special
> software look
> for these packets without potentially breaking other
> software. Try {SL
> for User ID=S (Shelter) and Type=L (List)
>
> 73,
>
> Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>

You are currently subscribed to aprsspec as: kd4rdb@netzero.com
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 8 15:13:03 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id PAA27531
for <lyris.aprsspec@tappr.org>; Sun, 8 Sep 2002 15:12:56 -0500 (CDT)
Date: Sun, 8 Sep 2002 16:12:22 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <LYR11586-97656-2002.09.08-10.30.38--bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-97695-2002.09.08-15.53.18--lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyrus Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209081610540.21238-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Sep 2002, AE5PL Lists wrote:

> Instead of adding a new meaning to the \$ data type, why not use the
> user-defined data type of { ? Throwing in a new meaning to the \$ data
> type might break some APRS software. The user-defined data type would
> be perfect for this application as you could have special software look
> for these packets without potentially breaking other software. Try {SL
> for User ID=S (Shelter) and Type=L (List)

I agree. But actually, there is already a SHELTERS data identifier, and since in the past 6 years, no one has used it, I would think it would be OK to define it. Go back and look at the original APRS paper in 1992 and identifying the RESOURCES at every station was actually one of the more important parts of APRS back then...

Bob

> > 73, > > Pete Loveall AE5PL
> <http://www.ae5pl.net>
> <mailto:pete@ae5pl.net>
>
> > -----Original Message-----
> > From: Wes Johnston [<mailto:kd4rdb@netzero.com>]
> > Posted At: Sunday, September 08, 2002 9:32 AM
> > Subject: [aprsspec] Re: Request for comment? Shelter list
> >
> > \$SL,TEST1,1,cow,2,moon,3,Charleston SC,4,500,5,103
> >
> > > Data will be modeled after GPS telemetry. \$SL will
> > indicate this is a Shelter List message. Comma delimited
> > fields. There
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 15:55:43 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA00761
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 15:55:37 -0500 (CDT)
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 15:55:23 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-97699-2002.09.08-16.36.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-MIMEOLE: Produced By Microsoft Exchange V6.0.6249.0
Content-Class: urn:content-classes:message
Thread-Topic: [aprsspec] Re: Request for comment? Shelter list
Thread-Index: AcJXdDsmTdglg8H1Ri6xWFe2G5LZOABYGyQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CE9D@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id PAA00761

Since I am basically lazy and don't want to spend my afternoon trying to find this paper you talk about, how about telling us what is a "shelters" data type, what is its format, and why it never made it to

the spec.

Thanks.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

> -----Original Message-----
> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Posted At: Sunday, September 08, 2002 3:14 PM
> Subject: [aprsspec] Re: Request for comment? Shelter list
>
> I agree. But actually, there is already a SHELTERS data
> identifier, and
> since in the past 6 years, no one has used it, I would think it would
> be OK to define it. Go back and look at the original APRS
> paper in 1992
> and identifying the RESOURCES at every station was actually
> one of the
> more important parts of APRS back then...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Sep 8 18:52:12 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA08349
for <lyris.aprsspec@tapr.org>; Sun, 8 Sep 2002 18:52:10 -0500 (CDT)
Date: Sun, 8 Sep 2002 19:51:51 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <LYR11586-97699-2002.09.08-16.36.16--bruninga@nadn.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-97721-2002.09.08-19.32.51--lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209081949100.5400-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Sep 2002, AE5PL Lists wrote:

> Since I am basically lazy and don't want to spend my afternoon trying to
> find this paper you talk about, how about telling us what is a
> "shelters" data type, what is its format, and why it never made it to
> the spec.

The data type is a "+" and that is all that has been defined. The
Sprouls were going to do it. So I abandoned what I had begun...

My idea was the first letter is the +,
The second letter is a TABLE character that defines what "table" is
represented by the remaining data in the line.
Then the remaining data is a series of fields representing what is on that
table.

One table might be the list of RESOURCES at a shelter
another might be the FREQS and BANDS of operation,
another might be the materials at the medical tent.
etc...

bob

> > -----Original Message-----
> > From: Bob Bruninga [mailto:bruninga@usna.edu]
> > Posted At: Sunday, September 08, 2002 3:14 PM
> > Subject: [aprsspec] Re: Request for comment? Shelter list
> >
> > I agree. But actually, there is already a SHELTERS data
> > identifier, and
> > since in the past 6 years, no one has used it, I would think it would
> > be OK to define it. Go back and look at the original APRS
> > paper in 1992
> > and identifying the RESOURCES at every station was actually
> > one of the
> > more important parts of APRS back then...
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil

> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Sep 8 20:08:03 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id UAA11426
for <lyris.aprsspec@tappr.org>; Sun, 8 Sep 2002 20:08:00 -0500 (CDT)
X-Sent: 9 Sep 2002 01:07:48 GMT
Message-ID: <LYR11589-97734-2002.09.08-20.48.43--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11698-97721-2002.09.08-19.32.51--
kd4rdb#netzero.com@lists.tappr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Sun, 8 Sep 2002 21:07:51 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Wes Johnston" <kd4rdb@netzero.com>
X-Message-Id: <003a01c2579d\$521a9130\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

Ok, I found it in the spec... just one reference... "the + character reserved as shelters list." Doesn't matter to me... {SL or +SL
... let's just settle on something. The sprouls asked for beta testers over a year ago and I volunteered, never heard a word back from them. Let's get this thing rolling. Red Cross and hospitals here are asking for this like crazy b/c 9/11 and hurricane season.

Wes

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>

Cc: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>

Sent: Sunday, September 08, 2002 7:51 PM

Subject: [aprsspec] Re: Request for comment? Shelter list

> On Sun, 8 Sep 2002, AE5PL Lists wrote:

>

> > Since I am basically lazy and don't want to spend my afternoon trying to

> > find this paper you talk about, how about telling us what is a

> > "shelters" data type, what is its format, and why it never made it to

> > the spec.

>

> The data type is a "+" and that is all that has been defined. The

> Sprouls were going to do it. So I abandoned what I had begun...

>

> My idea was the first letter is the +,

> The second letter is a TABLE character that defines what "table" is

> represented by the remaining data in the line.

> Then the remaining data is a series of fields representing what is on that

> table.

>

> One table might be the list of RESOURCES at a shelter

> another might be the FREQS and BANDS of operation,

> another might be the materials at the medical tent.

> etc...

>

> bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 08:20:01 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA20498
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 08:19:59 -0500 (CDT)
Date: Mon, 9 Sep 2002 09:19:38 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <LYR11586-97734-2002.09.08-20.48.43--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-97791-2002.09.09-09.00.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0209090836240.24184-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sun, 8 Sep 2002, Wes Johnston wrote:

> Ok, I found it in the spec... just one reference... "the + character
> reserved as shelters list." Doesn't matter to me... {SL or +SL ...
> let's just settle on something. Let's
> get this thing rolling. Red Cross and hospitals here are asking for
> this like crazy b/c 9/11 and hurricane season.

OK, lets do it. If I can summarize what you proposed:

SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...

Where:

"+" is the SHELTER FORMAT INDICATOR (APRS Type character)
"FORM" is a variable length FILENAME (with assumed extension .FRM
"N1,D1" are ordered pairs of numbers with the first being the

Nth FIELD and the second being a STRING value for that field.
LENGTH. There is a maximum packet length of bytes of 128 bytes
starting with the "+" byte.

Thats it. Only question is whether we agree witht the .FRM file
extension. Wes proposed a .TXT extension, but there are just so many .TXT
files in our systems, I would prefer a unique recognizable extension
that makes it easy to find these "forms". But does this raise issues with
Bill-Gate's TEXT EDITORS that these days have to have a .TXT extensino to
work? Doesnt bother me, since I still just use EDIT.COM for mos of my
editing with aoccassional use of WORDPAD if I have to use a Winders
machine...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 08:28:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21068
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 08:28:19 -0500 (CDT)
Message-Id: <LYR11589-97794-2002.09.09-09.08.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: tvsjr@sprynet.com@m2.sprynet.com
Date: Mon, 09 Sep 2002 08:29:39 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: tvsjr <tvsjr@sprynet.com>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <LYR29214-97791-2002.09.09-09.00.37--tvsjr#sprynet.com@list
s.tapr.org>
References: <LYR11586-97734-2002.09.08-20.48.43--
bruninga#nadm.navy.mil@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: tvsjr <tvsjr@sprynet.com>
X-Message-Id: <5.1.0.14.2.20020909082736.00b0baf0@m2.sprynet.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

.FRM files are also used in Visual Studio to indicate form files, as well as a number of other software packages. FRM is a fairly "controversial" extension, as many pieces of software want to register to it. Maybe AFR for APRS Form or something similar? If you're going to do file extensions, pick a one-character prefix and then choose a meaningful 2-character suffix. You can then associate those extensions with Notepad, and not have to worry (probably) about colliding with other programs.

Terry

At 09:19 AM 09/09/2002 -0400, Bob Bruninga wrote:

>On Sun, 8 Sep 2002, Wes Johnston wrote:

>

> > Ok, I found it in the spec... just one reference... "the + character

> > reserved as shelters list." Doesn't matter to me... {SL or +SL ...

> > let's just settle on something. Let's

> > get this thing rolling. Red Cross and hospitals here are asking for

> > this like crazy b/c 9/11 and hurricane season.

>

>OK, lets do it. If I can summarize what you proposed:

>

>SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...

>

>Where:

> "+" is the SHELTER FORMAT INDICATOR (APRS Type character)

> "FORM" is a variable length FILENAME (with assumed extension .FRM

> "N1,D1" are ordered pairs of numbers with the first being the

> Nth FIELD and the second being a STRING value for that field.

> LENGTH. There is a maximum packet length of bytes of 128 bytes

> starting with the "+" byte.

>

>Thats it. Only question is whether we agree witht the .FRM file

>extension. Wes proposed a .TXT extension, but there are just so many .TXT

>files in our systems, I would prefer a unique recognizable extension

>that makes it easy to find these "forms". But does this raise issues with

>Bill-Gate's TEXT EDITORS that these days have to have a .TXT extensino to

>work? Doesnt bother me, since I still just use EDIT.COM for mos of my

>editing with aoccassional use of WORDPAD if I have to use a Winders

>machine...

>

>Bob

>

>

>---

>You are currently subscribed to aprsspec as: tvsjr@sprynet.com

>To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

>Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 08:37:08 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21615
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 08:37:08 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 08:37:48 -0500
User-Agent: KMail/1.4.3
References: <LYR11586-97734-2002.09.08-20.48.43--
bruninga#nadm.navy.mil@lists.tapr.org> <LYR19704-97794-2002.09.09-09.08.50--
jjeffers#aprsworld.net@lists.tapr.org>
In-Reply-To: <LYR19704-97794-2002.09.09-09.08.50--
jjeffers#aprsworld.net@lists.tapr.org>
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-97797-2002.09.09-09.17.50--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200209090837.48831.jjeffers@aprsworld.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Extension? Why does the file need an extension? I have spent any appreciable time with DOS, so I don't know. If you do need an extension, don't make it assumed to be anything. Put the whole filename in the message.

-Jim KB0THN

On Monday 09 September 2002 08:29, tvsjr wrote:
> .FRM files are also used in Visual Studio to indicate form files, as well
> as a number of other software packages. FRM is a fairly "controversial"

> extension, as many pieces of software want to register to it. Maybe AFR for
> APRS Form or something similar? If you're going to do file extensions, pick
> a one-character prefix and then choose a meaningful 2-character suffix. You
> can then associate those extensions with Notepad, and not have to worry
> (probably) about colliding with other programs.
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 08:43:55 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21778
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 08:43:46 -0500 (CDT)
Message-ID: <LYR11589-97799-2002.09.09-09.24.25--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "B. Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-97791-2002.09.09-09.00.37--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 06:43:27 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <01ef01c25806\$e057e560\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I think TXT is just fine. But, the "+" packet construct is not ideal. The APRS-IS does not understand it. I would propose an extension to the Message format:

KH2Z>APRS,WIDE::WB4APR :F:FormName,field1,field2,field3,...{MM}AA

We should allow for messages greater than 67 characters.

Brent KH2Z

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Sent: Monday, September 09, 2002 6:19 AM
Subject: [aprsspec] Re: Request for comment? Shelter list

> On Sun, 8 Sep 2002, Wes Johnston wrote:
>
> > Ok, I found it in the spec... just one reference... "the + character
> > reserved as shelters list." Doesn't matter to me... {SL or +SL ...
> > let's just settle on something. Let's
> > get this thing rolling. Red Cross and hospitals here are asking for
> > this like crazy b/c 9/11 and hurricane season.
>
> OK, lets do it. If I can summarize what you proposed:
>
> SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...
>
> WHere:
> "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
> "FORM" is a variable length FILENAME (with assumed extension .FRM
> "N1,D1" are ordered pairs of numbers with the first being the
> Nth FIELD and the second being a STRING value for that field.
> LENGTH. There is a maximum packet length of bytes of 128 bytes
> starting with the "+" byte.
>
> Thats it. Only question is whether we agree witht the .FRM file
> extension. Wes proposed a .TXT extension, but there are just so many .TXT
> files in our systems, I would prefer a unique recognizable extension
> that makes it easy to find these "forms". But does this raise issues with
> Bill-Gate's TEXT EDITORS that these days have to have a .TXT extensino to
> work? Doesnt bother me, since I still just use EDIT.COM for mos of my
> editing with aoccassional use of WORDPAD if I have to use a Winders
> machine...
>
> Bob
>
>

> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 9 08:49:04 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id IAA21885
for <lyris.aprsspec@tappr.org>; Mon, 9 Sep 2002 08:49:03 -0500 (CDT)
Message-ID: <LYR11589-97803-2002.09.09-09.29.40--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "wes johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <Pine.GS0.4.44.0209090836240.24184-100000@arctic>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 09:46:34 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "wes johnston" <wes@johnston.net>
X-Message-Id: <007c01c2580f\$b3113bc0\$3b00a8c0@IPAPER.COM>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Brent made a suggestion to me off line this morning....
SHELTER FORMAT: +FORM,DDHHMM[/|z],D1,D2,Dn...
To which I suggested
SHELTER FORMAT: +FORM,DDHHMM[/|z]Nx,D,D,D...

This allows for easy indexing of forms which must be spread over multiple

packets. I feel it is very important to be able to chain packets together if there is more information than will fit in one packet. Brent's complaint was that the n1,d1,n2,d2 format was redundant. Also, let's not forget the TIME and DATE so we can keep shelter lists sent at different times indexed.

Can we get space on TAPR for these forms?

Wes

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>

> OK, lets do it. If I can summarize what you proposed:

>

> SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...

>

> WHere:

> "+" is the SHELTER FORMAT INDICATOR (APRS Type character)

> "FORM" is a variable length FILENAME (with assumed extension .FRM

> "N1,D1" are ordered pairs of numbers with the first being the

> Nth FIELD and the second being a STRING value for that field.

> LENGTH. There is a maximum packet length of bytes of 128 bytes

> starting with the "+" byte.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 09:09:09 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id JAA22544

for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 09:09:04 -0500 (CDT)

Subject: [aprsspec] Re: Request for comment? Shelter list

Date: Mon, 9 Sep 2002 09:08:41 -0500

Message-ID: <LYR11589-97805-2002.09.09-09.49.37--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain;

charset="US-ASCII"

Thread-Topic: [aprsspec] Re: Request for comment? Shelter list

Thread-Index: AcJYBvvBqMlfcrsCTKyisoLi1BaV4wAAmFnA

From: "AE5PL Lists" <HamLists@ametx.com>

Sender: bounce-aprsspec-11589@lists.tapr.org

X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0

content-class: urn:content-classes:message

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC04CEA6@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id JAA22544

> -----Original Message-----

> From: B. Hildebrand [mailto:bhildebrand@earthlink.net]
> Posted At: Monday, September 09, 2002 8:44 AM
> Subject: [aprsspec] Re: Request for comment? Shelter list
>

> I think TXT if just fine. But, the "+" packet construct is
> not ideal. The
> APRS-IS does not understand it. I would propose an extension
> to the Message
> format:

APRS-IS will pass the + packets from RF to the Internet. However, there will be no special handling for those packets as there is for messages (gating back to RF more difficult). However, this might be ok as this information is really only for local area use anyway (at least that is my understanding). Also, there is no acking so these packets might get collided with. Again, this might be well within what is desired.

I agree that if the desire is to use this format for messaging, then the message data type should be used and the format of the message should be "agreed upon" similar to the NTS message format.

Bob, thanks for pointing out the + data type. Definitely a good one for showing resources in a unicast environment.

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 9 09:42:01 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id JAA24809
for <lyris.aprsspec@tappr.org>; Mon, 9 Sep 2002 09:42:00 -0500 (CDT)
Message-ID: <LYR11589-97812-2002.09.09-10.22.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "wes johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <Pine.GS0.4.44.0209090836240.24184-100000@arctic>
<LYR11698-97803-2002.09.09-09.29.40--kd4rdb#netzero.com@lists.tappr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 10:39:48 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "wes johnston" <wes@johnston.net>
X-Message-Id: <00b001c25817\$22879c40\$3b00a8c0@IPAPER.COM>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Here's another issue.. we are using the comma to separate fields. That is the standard for NMEA data and other types as well... however, some names such as CHARLESTON, SC and some numbers such as \$9,999.99 have commas in them. I'd like to propose we copy what CSV files do. If you have a field which has a comma in it, we need to surround that field with double quotes.

CHARLESTON, SC = "CHARLESTON, SC"
\$9,999.99 = "\$9,999.99"

When a user enters a message, if he uses the double quote character, we need to strip it out.

Wes

----- Original Message -----

> Brent made a suggestion to me off line this morning....
> SHELTER FORMAT: +FORM,DDHHMM[/|z],D1,D2,Dn...

> To which I suggested
 > SHELTER FORMAT: +FORM,DDHHMM[/|z]Nx,D,D,D...
 >
 > This allows for easy indexing of forms which must be spread over multiple
 > packets. I feel it is very important to be able to chain packets together
 > if there is more information than will fit in one packet. Brent's
 complaint
 > was that the n1,d1,n2,d2 format was redundant. Also, let's not forget the
 > TIME and DATE so we can keep shelter lists sent at different times
 indexed.
 > Wes
 > From: "Bob Bruninga" <bruninga@usna.edu>
 > > OK, lets do it. If I can summarize what you proposed:
 > > SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...
 > >
 > > Where:
 > > "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
 > > "FORM" is a variable length FILENAME (with assumed extension .FRM
 > > "N1,D1" are ordered pairs of numbers with the first being the
 > > Nth FIELD and the second being a STRING value for that field.
 > > LENGTH. There is a maximum packet length of bytes of 128 bytes
 > > starting with the "+" byte.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:36:42 2002
 Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
 by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04529
 for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:36:40 -0500 (CDT)
 Date: Mon, 9 Sep 2002 13:36:05 -0400 (EDT)
 From: Bob Bruninga <bruninga@usna.edu>
 X-X-Sender: bruninga@arctic
 To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
 Subject: [aprsspec] Re: Request for comment? Shelter list
 In-Reply-To: <LYR11586-97791-2002.09.09-09.00.37--
 bruninga#nadm.navy.mil@lists.tapr.org>
 Message-ID: <LYR11589-97825-2002.09.09-13.17.18--
 lyris.aprsspec#tapr.org@lists.tapr.org>
 MIME-Version: 1.0
 Content-Type: TEXT/PLAIN; charset=US-ASCII
 X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
 List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091335310.10271-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, Bob Bruninga wrote:

> SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...
>
> WHere:
> "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
> "FORM" is a variable length FILENAME (with assumed extension .FRM

OOPS, and the file name is limited to 8 bytes or less (plus extension)...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:39:20 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA04601
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:39:12 -0500 (CDT)
Date: Mon, 9 Sep 2002 13:38:27 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <LYR11586-97791-2002.09.09-09.00.37--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-97826-2002.09.09-13.19.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091336300.10271-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

OOPS, We need to add a SERIAL number so that we konw WHICH particular copy of a given form we are dealing with. For example, My form is number 123456, and any UPDATES to that form will always include that serial number.

On Mon, 9 Sep 2002, Bob Bruninga wrote:

> SHELTER FORMAT: +FORM,NNNN,N1,D1,N2,D2,Nn,Dn...
>
> WHere:
> "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
> "FORM" is a variable length FILENAME (with assumed extension .FRM)
> "NNNN" is the NNNNth serial number for that particular copy
> "N1,D1" are ordered pairs of numbers with the first being the
> Nth FIELD and the second being a STRING value for that field.
> LENGTH. There is a maximum packet length of bytes of 128 bytes
> starting with the "+" byte.
>
> Thats it. Only question is whether we agree witht the .FRM file
> extension. Wes proposed a .TXT extension, but there are just so many .TXT
> files in our systems, I would prefer a unique recognizable extension
> that makes it easy to find these "forms". But does this raise issues with
> Bill-Gate's TEXT EDITORS that these days have to have a .TXT extensino to
> work? Doesnt bother me, since I still just use EDIT.COM for mos of my
> editing with aoccassional use of WORDPAD if I have to use a Winders
> machine...
>
> Bob
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ: http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs http://www.ew.usna.edu/~bruninga/cubesat.html

APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:47:21 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA05513
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:47:15 -0500 (CDT)
Date: Mon, 9 Sep 2002 13:46:55 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <[01ef01c25806\\$e057e560\\$20dcfea9@Thinkpad](mailto:01ef01c25806$e057e560$20dcfea9@Thinkpad)>
Message-ID: <LYR11589-97827-2002.09.09-13.28.00--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091340080.10271-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, B. Hildebrand wrote:

> I think TXT if just fine. But, the "+" packet construct is not ideal. The
> APRS-IS does not understand it. I would propose an extension to the Message
> format:
>
> KH2Z>APRS,WIDE::WB4APR :F:FormName,field1,field2,field3,...{MM}AA
>
> We should allow for messages greater then 67 characters.

Yes, that is possible, but my thoughts are...

- 1) I don't like TXT, because I want to be able to say sort a directory by extension and be able to quickly be able to identify all the files of the type for our FORMS and be able to manage them with wildcards. Making them .TXT files gets them lost among all the other bazillions of other TXT files...
- 2) The APRS-IS is compatible with the + type construct, because the APRS-IS is supposed to be transparent to all packets. It should inject a "+" type character without any modification.
- 3) No need to have the message overhead and limitations to apply to this new construct especially since we have had the + field reserved for shelters all along...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:55:11 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA05938
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:55:08 -0500 (CDT)
Date: Mon, 9 Sep 2002 13:54:45 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: Wes Johnston <kd4rdb@netzero.com>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <[007c01c2580fb3113bc0\\$3b00a8c0@IPAPER.COM](mailto:007c01c2580fb3113bc0$3b00a8c0@IPAPER.COM)>
Message-ID: <LYR11589-97829-2002.09.09-13.35.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091347380.10271-1000000@arctic>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, wes johnston wrote:

> Brent made a suggestion to me off line this morning....
> SHELTER FORMAT: +FORM,DDHHMM[/|z],D1,D2,Dn...
> To which I suggested
> SHELTER FORMAT: +FORM,DDHHMM[/|z]Nx,D,D,D...
>
> This allows for easy indexing of forms which must be spread over multiple
> packets. I feel it is very important to be able to chain packets together
> if there is more information than will fit in one packet.

Agree completely with the addition of the DATE/TIME (and a SERIAL number as I noted before).

> Brent's complaint
> was that the n1,d1,n2,d2 format was redundant.

Not at all. Most forms are very sparse and most times you only fill in a small number of fields. Also later you will want to send UPDATES to various fields on the forms. It is better to send the field number and then the data in order to keep the overall packet size smaller.

Of course this all depends on assumptions:

- 1) Forms are usually sparse and not all fields are usually used
- 2) Frequently only a few numbers on a form change and those need to be updated efficiently.

If these assumptions are not correct, then I agree that numbering every field adds overhead, but I think the assumptions are more correct than not...

> Also, let's not forget the
> TIME and DATE so we can keep shelter lists sent at different times indexed.

The serial number is for indexing... Not the date/time stamp. Thus only the serial number is unique. If a new packet contains a matching serial number, then it is "replacement" data and the new date/time of the form is the date/time of the most recent update.

Bob

>
> ----- Original Message -----
> From: "Bob Bruninga" <bruninga@usna.edu>

> > OK, lets do it. If I can summarize what you proposed:
> >
> > SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...
> >
> > WHere:
> > "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
> > "FORM" is a variable length FILENAME (with assumed extension .FRM
> > "N1,D1" are ordered pairs of numbers with the first being the
> > Nth FIELD and the second being a STRING value for that field.
> > LENGTH. There is a maximum packet length of bytes of 128 bytes
> > starting with the "+" byte.
>
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:59:06 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA06156
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:59:03 -0500 (CDT)
Message-ID: <LYR11589-97830-2002.09.09-13.39.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "B. Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-97827-2002.09.09-13.28.00--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 10:58:38 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3

X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <027701c2582a\$873fc7d0\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

- 1) TXT - you could of course create a directory for forms.
- 2) APRS-IS transparency. That is not what I'm talking about. The "+" construct as defined, is not a directed packet. A Message packet is only directed packet that traverses the APRS-IS, RF>Internet>RF or Internet>RF.
- 3) Using messages does add overhead, but that overhead is used to help (help) insure packet delivery. And group names can be used if desired.

Brent

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Monday, September 09, 2002 10:46 AM
Subject: [aprsspec] Re: Request for comment? Shelter list

> On Mon, 9 Sep 2002, B. Hildebrand wrote:

>

> > I think TXT if just fine. But, the "+" packet construct is not ideal.
The

> > APRS-IS does not understand it. I would propose an extension to the
Message

> > format:

> >

> > KH2Z>APRS,WIDE::WB4APR :F:FormName,field1,field2,field3,...{MM}AA

> >

> > We should allow for messages greater then 67 characters.

>

> Yes, that is possible, but my thoughts are...

>

> 1) I dont like TXT, because I want to be able to say sort a directory by
> extension and be able to quickly be able to identify all the files of the
> type for our FORMS and be able to manage them with wilcards. Making
> them .TXT files gets them lost among all the other bazialions of other

> TXT files...
>
> 2) The APRS-IS is compatible with the + type construct, because the
> APRS-IS is supposed to be transparent to all packets. It should inject a
> "+" type character without any modification.
>
> 3) No need to have the message overhead and limitations to apply to this
> new construct especially since we have had the + field reserved for
> shelters all along...
>
> Bob
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 12:59:27 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA06201
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 12:59:24 -0500 (CDT)
Message-ID: <LYR11589-97831-2002.09.09-13.39.57--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "wes johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97826-2002.09.09-13.19.39--
kd4rdb#netzero.com@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 13:56:41 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "wes johnston" <wes@johnston.net>
X-Message-Id: <018501c25832\$a38e0d40\$3b00a8c0@IPAPER.COM>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Suffice it to say that each agency involved already has a way of numbering their forms and their revision levels. When we move in to help them, we need to make sure we are as "transparent" as possible. I know that DOS restricts us to 8.3 filenames, but windows, linux and mac do not. I don't care much for 8.3 naming of forms b/c some agencies may have a form name which is longer than that (esp when you start adding revision levels). Since these lists will be sent locally, and we try to make all offices of an agency interoperatable, one could assume that either 1) every PC in every shelter would run the same version of aprs software (everyone either uses >8 file names or not), 2) that issues of naming a file so that the lowest common denominator would work would be handled locally, and have no place in the spec. I know someone has to set a limit b/c so many languages require declaration of variables, but it shouldn't be 8 characters. How about 32?

No disrespect indended, but would it be possible to generate a table in APRS dos to cross reference the possible long file name to an 8.3 name?

Wes

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Monday, September 09, 2002 12:38 PM
Subject: [aprsspec] Re: Request for comment? Shelter list

> OOPS, We need to add a SERIAL number so that we konw WHICH particular
> copy of a given form we are dealing with. For example, My form is number
> 123456, and any UPDATES to that form will always include that serial
> number.

>

> On Mon, 9 Sep 2002, Bob Bruninga wrote:

>

> > SHELTER FORMAT: +FORM,NNNN,N1,D1,N2,D2,Nn,Dn...

> >

> > WHere:

> > "+" is the SHELTER FORMAT INDICATOR (APRS Type character)

> > "FORM" is a variable length FILENAME (with assumed extension .FRM

> > "NNNN" is the NNNNth serial number for that particular copy

> > "N1,D1" are ordered pairs of numbers with the first being the

> > Nth FIELD and the second being a STRING value for that field.

> > LENGTH. There is a maximum packet length of bytes of 128 bytes


```

> >         starting with the "+" byte.
> >
> > Thats it.  Only question is whether we agree witht the .FRM file
> > extension.  Wes proposed a .TXT extension, but there are just so many
> > .TXT
> > files in our systems, I would prefer a unique recognizable extension
> > that makes it easy to find these "forms".  But does this raise issues
> > with
> > Bill-Gate's TEXT EDITORS that these days have to have a .TXT extensino
> > to
> > work?  Doesnt bother me, since I still just use EDIT.COM for mos of my
> > editing with aoccassional use of WORDPAD if I have to use a Winders
> > machine...
> >
> > Bob
> >
> >
> > ---
> > You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> > To unsubscribe send a blank email to
> > leave-aprsspec-11589P@lists.tapr.org
> > Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
> >
>
> de WB4APR@amsat.org, Bob
>
> PCsat WEB  page      http://www.ew.usna.edu/~bruninga/pcsat.html
> ISS-APRS FAQ:        http://www.ew.usna.edu/~bruninga/iss-faq.html
> CUBESAT Designs      http://www.ew.usna.edu/~bruninga/cubesat.html
> APRS LIVE pages      http://www.ew.usna.edu/~bruninga/aprs.html
> APRS SATELLITES      http://www.ew.usna.edu/~bruninga/astars.html
> MIM/Mic-E/Mic-Lite   http://www.toad.net/~wclement/bruninga/mic-lite.html
>
>
> ---
> You are currently subscribed to aprsspec as: kd4rdb@netzero.com
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
>

```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
 To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
 Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 13:02:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA06329
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 13:02:20 -0500 (CDT)
Message-ID: <LYR11589-97832-2002.09.09-13.42.47--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "B. Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "Wes Johnston" <kd4rdb@netzero.com>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-97829-2002.09.09-13.35.48--
bhildebrand@earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Mon, 9 Sep 2002 11:01:06 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <027c01c2582a\$df912fa0\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In respect to APRS, forms need to be short. Sparse forms just require a blank field in the proper count.

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "Wes Johnston" <kd4rdb@netzero.com>; "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Monday, September 09, 2002 10:54 AM
Subject: [aprsspec] Re: Request for comment? Shelter list

> On Mon, 9 Sep 2002, wes johnston wrote:
>
> > Brent made a suggestion to me off line this morning....
> > SHELTER FORMAT: +FORM,DDHHMM[/|z],D1,D2,Dn...

> > To which I suggested
> > SHELTER FORMAT: +FORM,DDHHMM[/|z]Nx,D,D,D...
> >
> > This allows for easy indexing of forms which must be spread over multiple
> > packets. I feel it is very important to be able to chain packets together
> > if there is more information than will fit in one packet.
>
> Agree completely with the addition of the DATE/TIME (and a SERIAL number
> as I noted before).
>
> > Brent's complaint
> > was that the n1,d1,n2,d2 format was redundant.
>
> Not at all. Most forms are very sparse and most times you only fill in a
> small number of fields. Also later you will want to send UPDATES to
> various fields on the forms. It is better to send the field number and
> then the data in order to keep the overall packet size smaller.
>
> Of course this all depends on assumptions:
> 1) Forms are usually sparse and not all fields are usually used
> 2) Frequently only a few numbers on a form change and those need to be
> updated efficiently.
>
> If these assumptions are not correct, then I agree that numbering every
> field adds overhead, but I think the assumptions are more correct than
> not...
>
> > Also, let's not forget the
> > TIME and DATE so we can keep shelter lists sent at different times
indexed.
>
> The serial number is for indexing... Not the date/time stamp. Thus only
> the serial number is unique. If a new packet contains a matching serial
> number, then it is "replacement" data and the new date/time of the form is
> the date/time of the most recent update.
>
>
>
> Bob
> >
> > ----- Original Message -----
> > From: "Bob Bruninga" <bruninga@usna.edu>
> > > OK, lets do it. If I can summarize what you proposed:
> > >
> > > SHELTER FORMAT: +FORM,N1,D1,N2,D2,Nn,Dn...
> > >

```
> > > WHere:
> > > "+" is the SHELTER FORMAT INDICATOR (APRS Type character)
> > > "FORM" is a variable length FILENAME (with assumed extension .FRM
> > > "N1,D1" are ordered pairs of numbers with the first being the
> > >         Nth FIELD and the second being a STRING value for that field.
> > > LENGTH. There is a maximum packet length of bytes of 128 bytes
> > >         starting with the "+" byte.
> >
> >
>
> de WB4APR@amsat.org, Bob
>
> PCsat WEB page      http://www.ew.usna.edu/~bruninga/pcsat.html
> ISS-APRS FAQ:       http://www.ew.usna.edu/~bruninga/iss-faq.html
> CUBESAT Designs     http://www.ew.usna.edu/~bruninga/cubesat.html
> APRS LIVE pages     http://www.ew.usna.edu/~bruninga/aprs.html
> APRS SATELLITES     http://www.ew.usna.edu/~bruninga/astars.html
> MIM/Mic-E/Mic-Lite http://www.toad.net/~wclement/bruninga/mic-lite.html
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

```
From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 13:19:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA07105
    for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 13:19:17 -0500 (CDT)
Message-ID: <LYR11589-97836-2002.09.09-13.59.56--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 9 Sep 2002 19:18:16 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Request for comment? Shelter list
References: <LYR11698-97826-2002.09.09-13.19.39--
kd4rdb#netzero.com@lists.tapr.org>
    <LYR26815-97831-2002.09.09-13.39.57--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-97831-2002.09.09-13.39.57--
roger#peaksys.co.uk@lists.tapr.org>
```

MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <+DRMQBoX0f9Ewzy@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-97831-2002.09.09-13.39.57--roger#peaksys.co.uk@lists.tappr.org>, wes johnston <wes@johnston.net> writes
>Suffice it to say that each agency involved already has a way of numbering
>their forms and their revision levels. When we move in to help them, we
>need to make sure we are as "transparent" as possible. I know that DOS
>restricts us to 8.3 filenames, but windows, linux and mac do not.

Win31 has an 8.3 restriction.

> I don't
>care much for 8.3 naming of forms b/c some agencies may have a form name
>which is longer than that (esp when you start adding revision levels).
>Since these lists will be sent locally, and we try to make all offices of an
>agency interoperatable, one could assume that either 1)every PC in every
>shelter would run the same version of aprs software (everyone either uses >8
>file names or not), 2) that issues of naming a file so that the lowest
>common denominator would work would be handled locally,

I think you're creating great potential for an "Oops! Sorry! Our systems
can't talk to each other!" scenario...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Sep 9 14:57:07 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA11822
for <lyris.aprsspec@tappr.org>; Mon, 9 Sep 2002 14:57:00 -0500 (CDT)
Mime-Version: 1.0

X-Sender: ksproul@email.rci.rutgers.edu
Message-Id: <LYR11589-97849-2002.09.09-15.37.16--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 9 Sep 2002 15:45:34 -0400
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@rci.rutgers.edu>
Subject: [aprsspec] Re: Request for comment? Shelter list
Cc: aprsspec@lists.tapr.org
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Keith Sproul <ksproul@rci.rutgers.edu>
X-Message-Id: <a05100300b9a2aabb78e6@[128.6.228.76]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Date: Mon, 9 Sep 2002 14:07:07 -0400
To: "Wes Johnston" <kd4rdb@netzero.com>, "APRS Spec Discussion List"
<aprsspec@lists.tapr.org>
From: Keith Sproul <ksproul@rci.rutgers.edu>
Subject: Re: [aprsspec] Request for comment? Shelter list

I am sorry, but I did not see the original request...

I will be more than happy to give you the previous work on this and help..

The best starting place is to talk on the phone..

Please PLEASE PLEASE do not make it starting with \$SL, i.e. no \$ at ALL!!!

This would screw up the protocol all together.. I will share with
you what was done....

Keith Sproul

At 22:15 -0400 9/7/02, Wes Johnston wrote:
I have written the Sprouls to ask for their help (or any work
previously done) for the shelters list. After about a month and no
response, I have come up with a few things.

Goals:

1.I want to develop a method which is interoperable across APRS and PSK31.

- 2.A shelter list is simply a collection of data. Alpha and numeric characters to be filled in on a form.
- 3.The forms are already in use. Every agency uses different forms, so we need a way to specify a particular form and numbered fields
- 4.All data needs to be human readable - ie compatible with PSK31's character set.
- 5.Data needs to have the ability to be fragmented into small (80byte or is it 67 byte?) chunks and reassembled on the other end.
- 6.PSK data needs a checksum. I suggest the plaintext hexadecimal XOR system used in NMEA data.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 15:58:30 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA16541
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 15:58:26 -0500 (CDT)
X-Sent: 9 Sep 2002 20:58:03 GMT
Message-ID: <LYR11589-97863-2002.09.09-16.39.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Wes Johnston" <kd4rdb@netzero.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97826-2002.09.09-13.19.39--
kd4rdb#netzero.com@lists.tapr.org> <LYR11698-97831-2002.09.09-13.39.57--
kd4rdb#netzero.com@lists.tapr.org>
Subject: [aprsspec] Shelter format evolution.
Date: Mon, 9 Sep 2002 16:58:06 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Wes Johnston" <kd4rdb@netzero.com>

X-Message-Id: <002701c25843\$99030400\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Today, we have addressed

- 1) Quotes around text that may contain commas
- 2) date
- 3) serial number (should we use the "{" at the end of packet just like message protocol?)
- 4) file name length and file extension (are the votes in yet?)
- 5) should "shelters" be a subset of message format or it's own data type. (votes?)
- 6) Field name and Field data structure.

As far as the basic field name/field data format, I see two camps...
Bob wants to specify n1,d1,n2,d2,n3,d3....
Brent wants to speicfy d,d,d,d,d,d

Here's a compromise...

Any field starting with a "&" is considered to be a field name. Other than that, you just specify the first field name, and data fields in sequence until you need to skip a field. At that point have a field with &x (where x is the field number/name), and continue on with data in sequence from there. Note that this does not preclude using the & character in any part of any text that may be in a field, only in the *first* position.

+FORM.EXT,DDHHMM[/|z],{&n1,{d1,n2,d3.....,&Nx,dx,dx+1,dx+2{<serialnumber>

Consider these two examples....

+form.txt,091447/,<data1>,<data2>,<data3>, ,<data5>,<data6> ,{001

note the missing field-----^

or

+form.txt,091447/,&<field1>,<data1>,<data2>,<data3>,&<field5>,<data5>,<data6>
>{001

Does this satisfy both camps?

Wes

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 17:27:30 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA20666
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 17:27:24 -0500 (CDT)
Date: Mon, 9 Sep 2002 18:26:47 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <027701c2582a\$873fc7d0\$20dcfea9@Thinkpad>
Message-ID: <LYR11589-97875-2002.09.09-18.07.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091812410.23982-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, B. Hildebrand wrote:

- > 1) TXT - you could of course create a directory for forms.
- > 2) APRS-IS transparency. That is not what I'm talking about. The "+"
> construct as defined, is not a directed packet. A Message packet is only
> directed packet that traverses the APRS-IS, RF>Internet>RF or Internet>RF.
- > 3) Using messages does add overhead, but that overhead is used to help
> (help) insure packet delivery. And group names can be used if desired.

Agree to all, but although we are talking about "forms" and we can all envision a bunch of red-cross forms of various descriptions and these in general probably need to go to one place, that is not what I think of when I think of the "general shelters concept" that we are trying to implement in APRS.

The original concept of "shelters" was just a buzz word to describe the ability to transmit to the NET, the presence of resources of all kinds at any given location. This was good data to have and display at all stations. Two examples are:

SHELTER: Beds, people, casualties, meals, workers, VIPS's, blankets, etc
STATION: VHF, UHF, HF, Bands, ATV, SSTV, APRS, Internet, Phone, E-power

So in this discussion, I am not thinking in terms of directed data, but

data that is displayed at all stations for everyone showing the capabilities and resources at that location...

Hope that helps.

Wes's idea of using "forms" as a way to give us an almost infinite variety of reporting formats is just an expansion of my original APRS concept where I was using a single character (1 of 92) different pre-defined formats. But the Forms idea makes it generic and alterable in the field... I like it...

About the .TXT extension. Even if it is placed in an "APRS\FORMS" directory, these files are going to be exchanged individually over and over and almost re-created and re-defined on the fly and in the field. In this case, people are going to be sending these files named "XXXXX.TXT" independently of the application. Thus when I see an attachment or get a disk with some .TXT files and see R-CROSS.TXT file, sooner or later I am going to forget that that is a FORMS file.

I just dont like making life harder than it already is. If it is a special file with a special application, then I dont see the harm in calling it a FORM file. Since someone said that FRM is already in use, then lets go with the suggested AFF for APRS-FORM-FILE. Then when I see a "AFF" file, I will konw what it is without having to open it and look at it...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 17:35:44 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA21013
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 17:35:35 -0500 (CDT)
Date: Mon, 9 Sep 2002 18:35:18 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
In-Reply-To: <018501c25832\$a38e0d40\$3b00a8c0@IPAPER.COM>
Message-ID: <LYR11589-97877-2002.09.09-18.16.17-->

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091827411.23982-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, wes johnston wrote:

> the spec. I know someone has to set a limit b/c so many languages require
> declaration of variables, but it shouldn't be 8 characters. How about 32?
>
> No disrespect indended, but would it be possible to generate a table in APRS
> dos to cross referance the possible long file name to an 8.3 name?

I strongly disagree. Just because someone names a FORM as
"RED_CROSS-VOLUNTEER_BACKGROUND-DATA_FORM" is certainly no reason for us
to be so wasteful in bandwidth when all we are trying to do is identify
the format of that form. And since such a file name is meaningless
unless the form is available on both ends of a COMM link, then, there
is little requirement for detailed human readability. Just make sure that
both ends of the link have the RCVBDF1.AFF file and be done with it.
And this way every single packet dealing with that form only has to have
the letters "RCVBDF1" in it and not the 32 bytes of verbose chatter...

An 8 byte file name can represent over 4,000,000,000,000 different files.
Should be enough...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 17:52:39 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA21783

for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 17:52:35 -0500 (CDT)
Date: Mon, 9 Sep 2002 18:52:03 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Shelter format evolution.
In-Reply-To: <LYR11586-97863-2002.09.09-16.39.02--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-97879-2002.09.09-18.33.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209091845200.23982-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 9 Sep 2002, Wes Johnston wrote:

> Today, we have addressed
>
> As far as the basic field name/field data format, I see two camps...
> Bob wants to specify n1,d1,n2,d2,n3,d3....
> Brent wants to speicfy d,d,d,d,d,d

Steve McCarter also notes that you have to have the former since:

> Also, consider the issue of a form that has more filled out fields than
> can be fit into a single packet. This will require fragmenting the form
> field listing over at least two packets, so field numbering is important
> to knowing *which* field the value belongs to!

> Here's a compromise...
> Any field starting with a "&" is considered to be a field name. Other than
> that, you just specify the first field name, and data fields in sequence
> until you need to skip a field. At that point have a field with &x (where x
> is the field number/name), and continue on with data in sequence from there.

I think that is getting close. Because except for the multi-packet
problem, I think most forms will probably be more than 50% full, so then
leaving out the FIELD NUMBER will save data. But you do have to have the
STARTING field for the sake of multi-packet extensions. So I suggest:

+FORM.,DDHHMM,S#,N#,D,D,D,D,D,,,,,

Where S is the serial number, N is the STARTING data field and D is all values after.... where FORM is up to an 8 byte file name with the assumed extension of .AFF. DDHHMM is the time stamp for this particular data update. Length is limited to 128 data bytes starting with the "+".

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 9 20:27:17 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id UAA28465
for <lyris.aprsspec@tapr.org>; Mon, 9 Sep 2002 20:27:15 -0500 (CDT)
Message-ID: <LYR11589-97897-2002.09.09-21.07.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Mon, 09 Sep 2002 19:26:57 -0600
From: KC7ZRU - Tate <kc7zru@arrl.net>
Organization: <http://www.cauce.org>
X-Accept-Language: en
MIME-Version: 1.0
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
References: <LYR19726-97791-2002.09.09-09.00.37--kc7zru#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: KC7ZRU - Tate <kc7zru@arrl.net>
X-Message-Id: <3D7D4A61.BE85258B@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Check existing filename extensions. Use this to see if anything chosen

may collide with other recognized extensions:

<http://filext.com/>

--

Casper, WY | CARC Repeater
DN62tt | 146.940
"The Dungeon" online at <http://go.to/kc7zru>
"RTFM" is NOT a 'four letter' word!

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 11:00:46 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA11220
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 11:00:45 -0500 (CDT)
From: "Steve McCarter" <kb4oid@kb4oid.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Request for comment? Shelter list
Date: Tue, 10 Sep 2002 10:57:51 -0500
Message-ID: <LYR11589-97994-2002.09.10-11.41.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR30061-97829-2002.09.09-13.35.48--
kb4oid#kb4oid.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Importance: Normal
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Steve McCarter" <kb4oid@kb4oid.org>
X-Message-Id: <CAEAJOAOCIGLDNALPI000ENNJHAA.kb4oid@kb4oid.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I inadvertently reply'd directly to Bob, instead of the list earlier, so I am reposting my comment of last night.

> > Brent's complaint
> > was that the n1,d1,n2,d2 format was redundant.
>
> Not at all. Most forms are very sparse and most times you only fill in a
> small number of fields. Also later you will want to send UPDATES to
> various fields on the forms. It is better to send the field number and
> then the data in order to keep the overall packet size smaller.
>
> Of course this all depends on assumptions:
> 1) Forms are usually sparse and not all fields are usually used
> 2) Frequently only a few numbers on a form change and those need to be
> updated efficiently.
>

Also, consider the issue of a form that has more filled out fields than can be fit into a single packet. This will require fragmenting the form field listing over at least two packets, so field numbering is important to knowing *which* field the value belongs to!

Steve McCarter, KB4OID
Fort Walton Beach, FL 32547, EM60ql
e-Mail me at kb4oid@kb4oid.org
Here's my personal site: <http://www.kb4oid.org/>
Visit PARC Online: <http://www.w4zbb.org/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 12:00:51 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA14535
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 12:00:50 -0500 (CDT)
Message-ID: <LYR11589-98004-2002.09.10-12.41.34--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "wes johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <Pine.GS0.4.44.0209101157270.9340-100000@arctic>
Subject: [aprsspec] Re: Shelter format evolution.
Date: Tue, 10 Sep 2002 12:58:20 -0500
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "wes johnston" <wes@johnston.net>
X-Message-Id: <002701c258f3\$a988b080\$3b00a8c0@IPAPER.COM>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Present format: :
+FORM.EXT,DDHHMM[z|/],S#,N#,D,D,D,D,D,,,,,.....

I still don't see how the date/time stamp isn't a serial number... it
does repeat after 30 days though... but then so would a serial number
each time the power failed and you had to restart your PC.

What about a heirachy for indexing based soley on FROMCALL -> FORM name->
DATE/TIME ? In other words, I should be able to hook (or double click) on a
station and pull up a text page with a listing of all shelter reports, click
on a report and see each date and time that form was used. Clicking on each
date/time should show a completed form with the blanks filled out.

If the serial number makes indexing in program memory or on disk easier, and
you are willing to have a few extra characters in a file, ok then.

Is there a top limit for serial number before it cycles back to 0?

When a packet is fragmented, do each of the fragments have the same serial
number for collation? Or is each fragment uniquely numbered? I was
thinking that the fragments would be collated by date/time stamp.

Am I being thick?

Wes

----- Original Message -----
From: "Bob Bruninga" <bruninga@usna.edu>
To: "Wes Johnston" <kd4rdb@netzero.com>
Sent: Tuesday, September 10, 2002 11:00 AM
Subject: Re: [aprsspec] Shelter format evolution.

> On Mon, 9 Sep 2002, Wes Johnston wrote:
>
> > Only thing in this that bothers me is the serial number... on the one
hand,
> > it's a good thing, on the other it's redundant... date/time can we used
to
> > match up fragmented packets just as well as a serial number.
>
> Not at all. At 101435 there were 33 beds at the shelter.
> At 101530 there were only 24 empty beds. The only way to match these up
> is by serial number. Oh, but that is a bad example because there is only
> one form at each site.
>
> Better example is LOST PERSON REPORT FORM (there may be hundreds at a
> site). 3 hours after the initial report of SUZAN last seen 5th and
> vine is an update for the SUZAN report where she was last seen at 4th and
> Maine street. Both will have different time stamps, but both have to get
> to the LOST {PERSON FORM #xxxx that applies to SUZAN... Only the serial
> bumber can do that...
>
> Bob
>
> > > Wes >
> > ----- Original Message ----- > From: "Bob Bruninga" <bruninga@usna.edu>
> > To: "Wes Johnston" <kd4rdb@netzero.com>
> > Sent: Monday, September 09, 2002 7:28 PM
> > Subject: Re: [aprsspec] Shelter format evolution.
> >
> >
> > > On Mon, 9 Sep 2002, Wes Johnston wrote:
> > >
> > > > What about when you want to skip a few fields, the suggestion of
putting
> > the
> > > > & character in front of a number to indicate that it is to begin a
new
> > > > sequence? Or are you saying that if you have to skip a field or two
or
> > 10,
> > > > just fragment the packet and start a new one beginning with the next
> > > > sequence number?
> > >
> > > No, just put in null fields as in
> > >
> > > Packet 1: #1,1,2,3,,,,,8,9,10,,,,,,15
> > > Packet 2: #16,,,,,,20,,,,,,30
> > >

> > > Here of course I put the number "8" as the 8th data field for
> > > simplicity... But only the #1 and #16 actually are field numbers...
> > >
> > > Bob
> > >
> > >
> > >
> >
>
> de WB4APR@amsat.org, Bob
>
> PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
> ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
> CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
> APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
> APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
> MIM/Mic-E/Mic-Lite <http://www.toad.net/~wclement/bruninga/mic-lite.html>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 14:12:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22790
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 14:12:17 -0500 (CDT)
Message-ID: <LYR11589-98030-2002.09.10-14.52.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "wes johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <Pine.GS0.4.44.0209101412510.9340-1000000@arctic>
Subject: [aprsspec] Re: Shelter format evolution.
Date: Tue, 10 Sep 2002 15:08:08 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "wes johnston" <wes@johnston.net>
X-Message-Id: <00ab01c25905\$c91e2620\$3b00a8c0@IPAPER.COM>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Ahhhh.... I hadn't considered a forms for each victim at site.... Serial number it is...

Was that the last hurdle? (me feeling very good)

Wes

----- Original Message -----

From: "Bob Bruninga" <bruninga@usna.edu>
To: "wes johnston" <wes@johnston.net>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Tuesday, September 10, 2002 1:48 PM
Subject: Re: [aprsspec] Shelter format evolution.

> On Tue, 10 Sep 2002, wes johnston wrote:

>

> > Present format: :

> > +FORM.EXT,DDHHMM[z|/],S#,N#,D,D,D,D,D,,,,,,,,,,,,,

> >

> > I still don't see how the date/time stamp isn't a serial number... it
> > *does* repeat after 30 days though... but then so would a serial number
> > each time the power failed and you had to restart your PC.

>

> Serial number identifies each use of the form. If each person at a
> shelter has a VICTIM-DATA-FORM to fill out, and there are 400 people,
> then you need 400 serial numbers to identify each use of said form...

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 14:15:04 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22932
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 14:15:02 -0500 (CDT)
Date: Tue, 10 Sep 2002 15:13:47 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Shelter format evolution.
Message-ID: <LYR11589-98031-2002.09.10-14.55.12--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209101513140.9340-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 10 Sep 2002, wes johnston wrote:

```
> Present format: :  
> +FORM.EXT,DDHHMM[z|/],S#,N#,D,D,D,D,D,,,,,,,,,,,,,  
>  
> I still don't see how the date/time stamp isn't a serial number... it  
> *does* repeat after 30 days though... but then so would a serial number  
> each time the power failed and you had to restart your PC.
```

Serial number identifies each use of the form. If each person at a shelter has a VICTIM-DATA-FORM to fill out, and there are 400 people, then you need 400 serial numbers to identify each use of said form...

The time stamp has nothing to do with the data on the form. It simply identifies for this packet and this particular instance for this form (VICTIM number 347 for example) the date/time that this packet was sent. The presumption is that if you sent this packet, you also updated anything else on the form that has changed as well. Thus this date/time stamp represents when this particular instance of this particular form was last updated.

No two packets will ever have the same date/time stamp so they cannot be used for indexing...

...

```
> What about a heirachy for indexing based soley on FROMCALL -> FORM  
> name-> DATE/TIME ? In other words, I should be able to hook (or double
```

> click) on a station and pull up a text page with a listing of all
> shelter reports, click on a report and see each date and time that form
> was used. Clicking on each date/time should show a completed form with
> the blanks filled out.

This scenario does not allow for updating an existing form. I think that
is fundamental to what we are trying to accomplish...

>
> If the serial number makes indexing in program memory or on disk easier, and
> you are willing to have a few extra characters in a file, ok then.
>
> Is there a top limit for serial number before it cycles back to 0?

It is a variable length field. So if you only use the form 10
different ways at once shelter, then you use 0-9. If you want to use
it 999999 different times, then use whatever serial number you want.

>
> When a packet is fragmented, do each of the fragments have the same serial
> number for collation?

Yes, definitely...

> Or is each fragment uniquely numbered? I was
> thinking that the fragments would be collated by date/time stamp.

Backwards. Each fragment is identified by serial number to match it to
the form in use and the specific instance of the form. The time stamp
changes with every packet transmitted...

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 17:30:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03923
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 17:30:42 -0500 (CDT)
Message-ID: <LYR11589-98043-2002.09.10-18.11.16--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Paula Dowie" <g8pzt@blueyonder.co.uk>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Carriage returns
Date: Tue, 10 Sep 2002 23:28:19 +0100

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2919.6600
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Paula Dowie" <g8pzt@blueyonder.co.uk>
X-Message-Id: <01ed01c25919\$7308b480\$b0ce1f3e@gb7pzt.ampr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm sure this topic has been raised by others, but I can't find the answer so I apologise for asking again.

Question 1: The aprs protocol reference version 1.0 makes no mention of carriage return characters in the ax25 information field, and I cannot see a purpose for them, so am I correct in presuming that APRS frames do not have to be terminated with carriage returns?

Question 2: Some of the frames I am receiving off air are terminated with <CR> and others are not. What action should I take when sending these to APRS-IS ? e.g. should I normalise all frames to the telnet end of line sequence <CR><LF> or should I send those frames which are terminated with <CR> as <CR><NULL><CR><LF> ?

Question 3: Are frames received from the APRS-IS "normalised", or do they preserve the original <CR> (if present) by sending it as <CR><NULL> so that the frame can be retransmitted exactly as it was sent?

73, Paula

g8pzt@blueyonder.co.uk
<http://www.pzt.org.uk>
Telnet: g8pzt.ath.cx:23 (Kidderminster router:)
Telnet: g8pzt.ath.cx:1448 (APRS server)
Telnet: g8pzt.ath.cx:3600 (Chat server)
Telnet: gb7pzt.dyndns.org:88 (gb7pzt bbs user access)
Telnet: gb7pzt.dyndns.org:6300 (gb7pzt bbs forwarding access)
<http://gb7pzt.dyndns.org/cgi-bin/menu.pz> (GB7PZT web interface)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 17:58:54 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA05058
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 17:58:54 -0500 (CDT)
Content-Type: text/plain;
charset="iso-8859-1"
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Carriage returns
Date: Tue, 10 Sep 2002 19:00:23 -0400
References: <LYR18156-98043-2002.09.10-18.11.16--dale@wa4dsy.net@lists.tapr.org>
In-Reply-To: <LYR18156-98043-2002.09.10-18.11.16--dale@wa4dsy.net@lists.tapr.org>
Boycott: Microsoft
X-Mailer-Not: Micro\$oft Lookout Virus Express 69.144
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Message-Id: <LYR11589-98065-2002.09.10-18.39.37--
lyris.aprsspec@tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <20020910225840.0279928B4D@wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tuesday 10 September 2002 06:28 pm, you wrote:

> I'm sure this topic has been raised by others, but I can't find the answer
> so I apologise for asking again.
>
> Question 1: The aprs protocol reference version 1.0 makes no mention of
> carriage return characters in the ax25 information field, and I cannot see
> a purpose for them, so am I correct in presuming that APRS frames do not
> have to be terminated with carriage returns?

Not required in the raw ax25 format. They are needed in the

ASCII domain to terminate the line.

>
> Question 2: Some of the frames I am receiving off air are terminated with
> <CR> and others are not. What action should I take when sending these to
> APRS-IS ? e.g. should I normalise all frames to the telnet end of line
> sequence <CR><LF> or should I send those frames which are terminated with
> <CR> as <CR><NULL><CR><LF> ?

Aprsd normalizes them to <CR><LF>

>
> Question 3: Are frames received from the APRS-IS "normalised", or do they
> preserve the original <CR> (if present) by sending it as <CR><NULL> so
> that the frame can be retransmitted exactly as it was sent?

Yes they are normalized if they came from aprsd. I do not know
about other servers.

>
> 73, Paula
> -----
> g8pzt@blueyonder.co.uk
> http://www.pzt.org.uk
> Telnet: g8pzt.ath.cx:23 (Kidderminster router:)
> Telnet: g8pzt.ath.cx:1448 (APRS server)
> Telnet: g8pzt.ath.cx:3600 (Chat server)
> Telnet: gb7pzt.dyndns.org:88 (gb7pzt bbs user access)
> Telnet gb7pzt.dyndns.org:6300 (gb7pzt bbs forwarding access)
> http://gb7pzt.dyndns.org/cgi-bin/menu.pz (GB7PZT web interface)
>
>
>
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: dale@wa4dsy.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

--
Dale Heatherington
Web: http://www.wa4dsy.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Sep 10 19:05:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA07490
for <lyris.aprsspec@tapr.org>; Tue, 10 Sep 2002 19:05:21 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] Re: Carriage returns
Date: Tue, 10 Sep 2002 19:05:07 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-98068-2002.09.10-19.46.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Thread-Topic: [aprsspec] Re: Carriage returns
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Index: AcJZHb4Ppv+N1cGiR02mxxXp/8RDkgAB/j9w
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC078366@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA07490

> -----Original Message-----

> From: Dale Heatherington [mailto:dale@wa4dsy.net]

> Posted At: Tuesday, September 10, 2002 6:00 PM

> Subject: [aprsspec] Re: Carriage returns

>

> On Tuesday 10 September 2002 06:28 pm, you wrote:

> > I'm sure this topic has been raised by others, but I can't
> find the answer

> > so I apologise for asking again.

> >

> > Question 1: The aprs protocol reference version 1.0 makes
> no mention of

> > carriage return characters in the ax25 information field,

> and I cannot see

> > a purpose for them, so am I correct in presuming that APRS
> frames do not
> > have to be terminated with carriage returns?
>
> Not required in the raw ax25 format. They are needed in the
> ASCII domain to terminate the line.

There is nothing that precludes sending a CR or LF via AX.25. HOWEVER,
the APRS spec assumes TNC's used in monitor mode which DOES preclude
sending or receiving CR or LF. Therefore, the raw I-frame for APRS must
NOT have either a CR or LF in it. If you are using a TNC not in KISS
mode, you must terminate each packet with a CR and/or LF so the TNC
knows the packet is complete.

> > Question 2: Some of the frames I am receiving off air are
> terminated with
> > <CR> and others are not. What action should I take when
> sending these to
> > APRS_IS ? e.g. should I normalise all frames to the telnet
> end of line
> > sequence <CR><LF> or should I send those frames which are
> terminated with
> > <CR> as <CR><NULL><CR><LF> ?
>
> Aprsd normalizes them to <CR><LF>

I think this normalization should be done by all IGates, but that is my
personal preference. Glad to see aprsD does that.

> > Question 3: Are frames received from the APRS_IS
> "normalised", or do they
> > preserve the original <CR> (if present) by sending it as
> <CR><NULL> so
> > that the frame can be retransmitted exactly as it was sent?
>
> Yes they are normalized if they came from aprsd. I do not know
> about other servers.

javAPRSSrvr also terminates each line with a CR LF sequence (after
stripping any CR's and LF's from the received line).

73,

Pete Loveall AE5PL
<http://www.ae5pl.net>
<mailto:pete@ae5pl.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Sep 11 03:19:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA29665
for <lyris.aprsspec@tapr.org>; Wed, 11 Sep 2002 03:19:23 -0500 (CDT)
Message-ID: <LYR11589-98124-2002.09.11-03.59.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 11 Sep 2002 09:18:20 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Carriage returns
References: <LYR18156-98043-2002.09.10-18.11.16--dale#wa4dsy.net@lists.tapr.org>
<LYR26815-98065-2002.09.10-18.39.37--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-98065-2002.09.10-18.39.37--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <OiYQWKAMxvf9EwnH@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-98065-2002.09.10-18.39.37--roger#peaksys.co.uk@lists.tapr.org>, Dale Heatherington <dale@wa4dsy.net> writes
>On Tuesday 10 September 2002 06:28 pm, you wrote:
>> I'm sure this topic has been raised by others, but I can't find the answer
>> so I apologise for asking again.
>>
>> Question 1: The aprs protocol reference version 1.0 makes no mention of
>> carriage return characters in the ax25 information field, and I cannot see
>> a purpose for them, so am I correct in presuming that APRS frames do not
>> have to be terminated with carriage returns?
>
>Not required in the raw ax25 format. They are needed in the
>ASCII domain to terminate the line.

This has been discussed in the past, I remember it well. The conclusion was that *all* frames transmitted on RF should be terminated with a CR. I remember it well because, at that time, UI-View didn't put a CR on RF

frames when the user was using KISS mode, and I changed it to make sure that every frame had a CR on it.

This wasn't simply about putting a CR on the frame as the SENDPAC character when using a TNC in terminal mode, it was about making sure the RF frame had a CR on it.

The discussions occurred in January 2001. I can't remember the details, but in my email archives I found a message I sent to the APRSSIG arguing that a CR wasn't needed on RF - see below. Obviously after that point I was persuaded otherwise.

```
*****
In article <LYR1643-129909-2001.01.17-12.45.57--roger#peaksys.co.uk@list
s.tapr.org>, Bob Bruninga <bruninga@usna.edu> writes
>Correct. If the spec does not specifically say a CR is required, then it
>should. That is the only way to ensure proper decoding with all programs,
>TNC's, modes, and links.
```

I'm having difficulty envisaging the situation in which it makes any difference whether or not a packet transmitted on RF includes a CR.
Etc...

```
*****
```

```
--
Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - http://www.UI-View.com
For WinPack go to - http://www.peaksys.co.uk
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
```

```
From bounce-aprsspec-11589@lists.tapr.org Sun Sep 15 16:16:47 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
    by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA04050
    for <lyris.aprsspec@tapr.org>; Sun, 15 Sep 2002 16:16:42 -0500 (CDT)
Date: Sun, 15 Sep 2002 17:11:06 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS SIG <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: User defined APRS formats (May 2002)
In-Reply-To: <LYR11586-80282-2002.05.21-18.32.54--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-98789-2002.09.15-16.52.23--
```

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209151708430.15545-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

APRS USER DEFINED DATA FORMATS LIST Sep 2002 (Previous was May 2002)

HEADER	AUTHOR	DESCRIPTION
{Fnn	WB4APR	nn is a 2 byte descriptor of MITELE GPS data formats
{K1	WB4APR	"K" for Keps and "1" for NASA One line.
{K2n	WB4APR	For NASA two line elements. "n" is line 1 or 2.
{x1	J Bennet	for WX
{x2	J Bennet	for WX
{HT	WB4APR	For HAM-Trail reporting devices (tbd)

de Wb4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Sep 18 05:17:43 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id FAA26701
for <lyris.aprsspec@tapr.org>; Wed, 18 Sep 2002 05:17:43 -0500 (CDT)
Message-ID: <LYR11589-99236-2002.09.18-05.58.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "stephen galowski" <sgalow@ihug.com.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] question
Date: Wed, 18 Sep 2002 20:24:12 +1000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "stephen galowski" <sgalow@ihug.com.au>
X-Message-Id: <008901c25efd\$9ca39be0\$0a01a8c0@idroeneradlle9>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

hi list members
my question is as follows .

how easy is it to add to the aprs in the weather section
a terminal based weather station that runs on 1200 bps
n 8 1 , in real time in 1 minute intervals

stephen galowski

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Sep 20 17:04:22 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA23519
for <lyris.aprsspec@tapr.org>; Fri, 20 Sep 2002 17:04:14 -0500 (CDT)
Date: Fri, 20 Sep 2002 18:03:51 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS TOCALLs/versions (Sept 2002)
Message-ID: <LYR11589-99726-2002.09.20-17.45.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0209201757570.17269-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Here is the current list of APRS T0calls and Version nomenclature that I have updated. Previous one was June 2002 version 3.

I have added: APTWxx for Byon's WXTrak and WB6ZSU's APNAXx for APRServe.

- APA A-Filter, Alinco, etc
 - APAFxx AFilter.
 - APAGxx AGATE
 - APAXxx AFilterX.
 - APAHxx AHub
- APB Rabbit TCPIP microprocessors
- APC Windows CE, etc
 - APCYxx Cybiko applications
- APD APRSd, etc
 - APDTxx APRStouch Tone (DTMF)
- APE avail
- APF avail
- APG Gates, etc
- APH HamHud, etc
- API Icom, etc
 - APICQx for ICQ
- APJ JavaAPRS,JeAPRS,etc
 - APJAx JavAPRS
 - APJEx JeAPRS
- APK Kenwood, etc
 - APK0xx THD7's
 - APK1xx D700's
- APL Liunx applications
- APM MacAPRS, etc
- APN Network nodes, digis, etc
 - APN3xx Kantronics KPC-3 rom versions
 - APN9xx Kantronics KPC-9612 Roms
 - APNAXx WB6ZSU's APRServe
 - APNMxx MJF TNC roms
 - APNPxx Paccom TNC roms
 - APNDxx DIGI_NED
 - APNUxx UIdigi
- APO APRSpoint
- APP pocketAPRS, etc
- APQ avail
- APR APR8xx APRSdos,etc

APRDxx APRSdata, APRSdr
APRKxx APRStk
APRS Generic, (obsolete. Digis should use APNxxx instead)
APRXxx APRSmax
APRTLM used my MIM's and Mic-lites, etc
APRSTx APRStt (Touch tone)
APS APRS+SA, etc
APT TinyTrack
APTTxx Tiny Track
APT2xx Tiny Track II
APTAXx K4ATM's tiny track
APTWxx Byons WXTrac
APTV for ATV/APRN and SSTV applications
APU UView, etc
APU1xx UView 16 bit applications
APU2xx UView 32 bit apps
APU3xx UView terminal program
APV avail
APW WinAPRS, etc
APX Xaprs, Xastir, etc
APY etc, Yeasu, etc
APZ Experimental
APZ0xx Xastir (old versions. See APX)
APZPAD Smart Palm

Authors with similar alphabetic requirements are encouraged to share their address space with other software. Work out agreements amongst yourselves and keep me informed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Sep 23 06:36:29 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA27205
for <lyris.aprsspec@tapr.org>; Mon, 23 Sep 2002 06:36:28 -0500 (CDT)
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Mon, 23 Sep 2002 04:34:37 -0700
Subject: [aprsspec] New to APRS
Message-ID: <LYR11589-100069-2002.09.23-07.17.48--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: Terry W Arnall <tarnall@juno.com>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Terry W Arnall <tarnall@juno.com>
X-Message-Id: <20020923.043437.208.0.tarnall@juno.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I am brand new to APRS and have not got it running yet.
Are there two zip files that need to be downloaded for APRS-SA?

Terry - KB6EBZ

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Sep 28 06:34:26 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id GAA23986

for <lyris.aprsspec@tapr.org>; Sat, 28 Sep 2002 06:34:26 -0500 (CDT)
X-Sent: 28 Sep 2002 11:33:45 GMT
Message-ID: <LYR11589-100853-2002.09.28-07.15.34--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Wes Johnston" <wes@johnston.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11698-97826-2002.09.09-13.19.39--
kd4rdb#netzero.com@lists.tapr.org> <LYR11698-97831-2002.09.09-13.39.57--
kd4rdb#netzero.com@lists.tapr.org> <LYR11698-97863-2002.09.09-16.39.02--
kd4rdb#netzero.com@lists.tapr.org>
Subject: [aprsspec] Re: Shelter format evolution.
Date: Sat, 28 Sep 2002 07:33:32 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Wes Johnston" <wes@johnston.net>
X-Message-Id: <002f01c266e2\$e03be960\$152b262c@stephanie>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Has anyone done any implementation? I'd really like to be able to show off
the shelter list / forms feature!! Sprouls??? please?? Hurricaine season
is upon us, and active.

Wes

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From sarah_benson@nomoreaccent.com Sun Sep 29 17:00:13 2002
Received: from mx2.mail.twtelecom.net (mx2.mail.twtelecom.net [168.215.210.54])
by tapr.org (8.9.3/8.9.3/1.13) with ESMTP id RAA04766;
Sun, 29 Sep 2002 17:00:12 -0500 (CDT)
Received: from 58.59.53.29 (24-148-36-246.na.21stcentury.net [24.148.36.246])
by mx2.mail.twtelecom.net (Postfix) with SMTP

id 0E5ABAAB5; Sun, 29 Sep 2002 17:00:07 -0500 (CDT)
From: Sarah Benson <sarah_benson@nomoreaccent.com>
Reply-To: sarah_benson@nomoreaccent.com
Subject: Q: DOES YOUR FOREIGN ACCENT SIMPLY GET IN THE WAY?
Date: Sun, 29 Sep 2002 16:59:58 -0500
MIME-Version: 1.0
Content-Type: multipart/mixed; boundary="8e9e7f35-7149-4a3c-94c9-56a3675415cf"
Message-Id: <20020929220007.0E5ABAAB5@mx2.mail.twtelecom.net>
To: undisclosed-recipients;;

This is a multi-part message in MIME format
--8e9e7f35-7149-4a3c-94c9-56a3675415cf
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: quoted-printable

Q: " Would you like to Lose Your Accent ? "

- DO YOU FIND OTHERS HAVE A HARD TIME UNDERSTANDING WHAT YOU ARE TRYING TO = CONVEY?
- DO YOU FIND THE NEED TO REPEAT YOURSELF FOR OTHERS TO UNDERSTAND YOU = CLEARLY?
- DO YOU FEEL EMBARRASSED OR LESS CONFIDENT WHEN TALKING TO WORK COLLEAGUES?
- DO YOU WISH TO COMMUNICATE YOUR THOUGHTS MORE EFFECTIVELY?
- DOES YOUR FOREIGN ACCENT SIMPLY GET IN THE WAY?

Introducing the Krieger Method, an innovative teaching system, designed to = help you develop effective communication skills.

Andy Krieger, inventor of this miracle product, originated this revolutionary = idea whilst working with actors and their accents within the Hollywood film = industry.

Contact us to learn about the true benefits you can obtain to communicate = with confidence!!

"Make your accent simply disappear!"

For Accent Reduction Empowerment, visit us on the web today at :-

www.nomoreaccent.com

Thank you for your time and interest...

Sarah J. Benson
Marketing Co-ordinator

If you feel this email is not of interest to you, then we sincerely =
apologize and guarantee you will not receive another email from us, unless =
you otherwise wish.

--8e9e7f35-7149-4a3c-94c9-56a3675415cf--

From bounce-aprsspec-11589@lists.tappr.org Wed Oct 2 17:43:58 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA03154
for <lyris.aprsspec@tappr.org>; Wed, 2 Oct 2002 17:43:57 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.1.0.2006
Date: Wed, 02 Oct 2002 18:41:05 -0400
Subject: [aprsspec] Write
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Message-ID: <LYR11589-101404-2002.10.02-18.24.55--
lyris.aprsspec#tappr.org@lists.tappr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <B9C0EE41.8467%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id RAA03154

TAPR members:

Here is your chance to become rich and famous! Well, maybe not rich, but certainly famous.

The editorial board of Packet Status Register (PSR, TAPR's quarterly newsletter) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

E-mail your contributions to wallou@tappr.org ASAP because the deadline for the next issue of the newsletter is October 24.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 1 23:37:57 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id XAA10689
for <lyris.aprsspec@tapr.org>; Fri, 1 Nov 2002 23:37:53 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Paper copies of the APRS spec?
Date: Sat, 2 Nov 2002 16:36:57 +1100
Message-ID: <LYR11589-105304-2002.11.02-00.21.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Scanner: exiscan *187qy0-000813-00*9wcnplFq6Y* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <00d101c28231\$df0e4d20\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

People

I am wondering if there is a need to publish the APRSspec onto paper? I know it is available online, and that it is subject to change.

However it seems to be fairly stable, and is the sort of thing that I refer to all the time. Or I would if I had a paper copy for the shack.

Would people buy a copy if it were made available? Feel free to email me directly and I will summarise the responses.

Thanks

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Nov 2 03:23:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA18056
for <lyris.aprsspec@tapr.org>; Sat, 2 Nov 2002 03:23:29 -0600 (CST)
Message-ID: <LYR11589-105311-2002.11.02-04.06.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Sat, 2 Nov 2002 09:22:19 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Paper copies of the APRS spec?
References: <LYR26815-105304-2002.11.02-00.21.00--
roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-105304-2002.11.02-00.21.00--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <aEW1\$JAL15w9Ew\$e@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-105304-2002.11.02-00.21.00--roger#peaksys.co.uk@lists.tapr.org>, Darryl Smith <Darryl@radio-active.net.au> writes

>People

>

>I am wondering if there is a need to publish the APRSspec onto paper? I
>know it is available online, and that it is subject to change.

>

>However it seems to be fairly stable, and is the sort of thing that I
>refer to all the time. Or I would if I had a paper copy for the shack.

>

>Would people buy a copy if it were made available? Feel free to email me
>directly and I will summarise the responses.

I think if I ever wanted a printed copy, I'd print my own.

One problem I found with the approved version of the spec, was that it didn't have section header bookmarks - the draft versions did. So I bookmarked it myself in the style of the draft versions. If anyone else thinks that would be useful, the bookmarked copy is on my web site - <http://www.ui-view.com/aprs/ap101bm.zip>

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Nov 3 13:06:06 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA25483
for <lyris.aprsspec@tapr.org>; Sun, 3 Nov 2002 13:05:57 -0600 (CST)
Subject: [aprsspec] APRS-IS Specialized Servers
Date: Sun, 3 Nov 2002 13:05:27 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-105447-2002.11.03-13.48.56--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
content-class: urn:content-classes:message
Thread-Topic: APRS-IS Specialized Servers
Thread-Index: AckDa/jJhXTJfsqKRoCMOpe7beNQw==
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC0783DF@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA25483

Over the past few months, there has been some concern raised regarding

the use of APRS-IS to broadcast information available from other Internet sources for the sole consumption of Internet-connected clients (not for RF). The concerns expressed are multifaceted, but bandwidth is one of the major issues. At the risk of flames from those with their own agendas to promote, I would like to advance some principals and ideas on the use of APRS-IS and possible ways to expand its use without becoming a burden to those that support it. Most of these ideas are simply gathered from views expressed by others either here or elsewhere.

1) APRS-IS is a high speed backbone interconnecting local RF networks. Bob has stated a number of times that APRS was developed as a "tactical" protocol. APRS-IS provides "intelligent" linking of these individual tactical networks by the use of IGates and servers. If the primary purpose, today, of APRS-IS is to link RF networks, then any data injected into APRS-IS should also be of a form easily gated to an RF network.

2) APRS-IS is supported by donated equipment, bandwidth, and time. As such, it is the responsibility of those that use APRS-IS to minimize their impact on this donated resource while maintaining solid linking between RF networks. Data injected into APRS-IS in bursts creates peak loads that can overload the donated resources.

3) Internet access is not free and, in some parts of the world, can be very expensive for streaming data. This should encourage those of use with "cheap" bandwidth to be respectful of those that don't have that bandwidth. Server operators who inject data into APRS-IS where no RF network desires that information should rethink their distribution method out of respect for the other hams using the network.

Given the above principals, the question comes to mind "I would like to see more data from APRS-IS, what is the best way to inject that data?" There are two methods for placing data on APRS-IS: push and pull. The push method is used by WXSRRV to place weather events issued by the NWS (US weather service) onto APRS-IS for gating to RF. Dale has talked about making the WXSRRV a push-pull server where abbreviated watches and warnings would be "pushed" onto APRS-IS (still in an easily gated form) but the more verbose information would only be injected if someone sent a message to WXSRRV asking for the information. This would be a good example of using both push and pull effectively.

The pull method could be implemented by those experimenting with different information sources. It would reduce the impact on APRS-IS and provide meaningful information to APRS users on RF. For instance, a message to METAR asking for the closest weather would get a message back from the METAR "station" with the abbreviated METAR weather report. A message to FIRES for the closest fire would get a message back with the

closest fire information. The reason for posting here is this: we can make "standardized" messages for any of these.

My thought along this line is as follows:

Define different services. For instance METAR, FIRES, BUOYS, QUAKES, WXSVR, etc.

Have some "standard" queries. For instance ?NEAREST, ?LATEST 40mi (latest within 40 miles), ?NEAR 40mi (means within 40 miles), etc.

This would give us a great new use for APRS messaging, reduce the bandwidth used by non-RF related information, and give someone in the field a "mini-web browser".

Comments about defining services and message syntax?

73,

Pete Loveall AE5PL
pete@ae5pl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Nov 3 14:13:09 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA28384
for <lyris.aprsspec@tapr.org>; Sun, 3 Nov 2002 14:13:08 -0600 (CST)
Subject: [aprsspec] RE: APRS-IS Specialized Servers
Date: Sun, 3 Nov 2002 14:12:57 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-105456-2002.11.03-14.56.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
content-class: urn:content-classes:message
Thread-Topic: [aprsspec] APRS-IS Specialized Servers
Thread-Index: AckDa/jJhXTJfsqKR0CM0pe7beNQwACE0GQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC086C2D@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id OAA28384

In addition to providing "pull" services to all of APRS-IS, the specialized servers could also offer ports for clients to connect to directly receive the information that the server is generating. It is important, however, that only clients (no servers) connect to these ports. Servers connecting to other servers that are connected to these specialized servers can cause the data to be inserted into the general APRS-IS.

This mass interconnection of servers is also how loops occur on APRS-IS. Server sysops should review their configurations and reduce or eliminate most inter-server connections. Tier 2 servers should have single bidirectional feeds which connect to the core servers. There should not be multiple concurrent bidirectional feeds from a tier 2 server to the core servers. Nor should a tier 2 server arbitrarily create concurrent connections to other servers. The reasoning is simple: prevent loop conditions; reduce bandwidth requirements at other servers.

73,

Pete Loveall AE5PL
pete@ae5pl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Nov 5 10:11:13 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA15573
for <lyris.aprsspec@tapr.org>; Tue, 5 Nov 2002 10:11:13 -0600 (CST)
Date: Tue, 05 Nov 2002 11:09:27 -0500
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] New Issue of Packet Status Register Available
Message-ID: <LYR11589-105706-2002.11.05-10.53.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Content-Disposition: inline
X-Spam-Status: No, hits=0.0 required=5.0 tests= version=2.20
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: John Ackermann N8UR <jra@febo.com>
X-Message-Id: <11665073.1036494567@WUSJA129861-8HP.corp.ncr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The Autumn 2002 issue of TAPR's journal, the _Packet_Status_Register_, is now available online.

You can download it, and past issues of PSR, from <http://www.tappr.org/psr> or via FTP from <ftp.tappr.org/psr>. The issue name is "Autumn_85_2002.pdf".

73,
John N8UR

John Ackermann N8UR jra@febo.com <http://www.febo.com>
President, TAPR n8ur@tappr.org <http://www.tappr.org>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Nov 6 00:59:51 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id AAA00393
for <lyris.aprsspec@tappr.org>; Wed, 6 Nov 2002 00:59:46 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] How widely implemened is APRS Compressed format?
Date: Wed, 6 Nov 2002 17:58:22 +1100
Message-ID: <LYR11589-105815-2002.11.06-01.42.59--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal

X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-Scanner: exiscan *189K9n-0001Ng-00*fIQdKbVfsrQ* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <001701c28561\$e8a2cae0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

People

How widely implemented is the APRS compressed format. I want to do some decoding in a PIC and it seems to me that dividing by 91, and then converting from decimal degrees to degrees with decimal minutes may be outside the capabilities of the IC.

Also, I was wondering if there exists a reference C implementation for it and MIC-E decode? That would be better than re-inventing the wheel (again).

Many thanks

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 6 14:37:20 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA01212
for <lyris.aprsspec@tapr.org>; Wed, 6 Nov 2002 14:37:14 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Wed, 6 Nov 2002 12:34:59 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>

X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapir.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-Reply-To: <LYR30395-105815-2002.11.06-01.42.59--
hacker@tc.fluke.com@lists.tapir.org>
Message-ID: <LYR11589-105904-2002.11.06-15.20.31--
lyris.aprsspec@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 06 Nov 2002 20:36:57.0336 (UTC)
FILETIME=[4003FF80:01C285D4]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0211061230410.1414-1000000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Wed, 6 Nov 2002, Darryl Smith wrote:

> How widely implemented is the APRS compressed format. I want to do some
> decoding in a PIC and it seems to me that dividing by 91, and then
> converting from decimal degrees to degrees with decimal minutes may be
> outside the capabilities of the IC.
>
> Also, I was wondering if there exists a reference C implementation for
> it and MIC-E decode? That would be better than re-inventing the wheel
> (again).

Compressed format is implemented in Xastir, including compressed
objects and items.

The Xastir source code is freely available under the GPL license and
written in C. We can't promise that it'll be easy to understand or
that it's the best written or commented code in the world, but it
might suffice for your "reference implementation".

<http://sourceforge.net/projects/xastir>

Navigate to "CVS" and then "Browse CVS Repository". Most of the
decoding code is in "db.c".

You could also snag the entire source distribution and pick through
it at will. It's distributed in tar'ed gzip'ed format.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 6 17:27:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA08841
for <lyris.aprsspec@tapr.org>; Wed, 6 Nov 2002 17:27:04 -0600 (CST)
Message-Id: <LYR11589-105921-2002.11.06-18.10.08--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Wed, 06 Nov 2002 15:26:26 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
In-Reply-To: <LYR19173-105904-2002.11.06-15.20.31--wa7nwp#yahoo.com@list
s.tapr.org>
References: <LYR30395-105815-2002.11.06-01.42.59--
hacker#tc.fluke.com@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20021106152014.00b45ee0@pioneer.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

>

>The Xastir source code is freely available under the GPL license and
>written in C.

Once you include it directly in your software, you're required to

release your source code. No? The poison pill principle.

Maybe it would be possible to use code on a non-GPL basis with permission from authors of individual sections of XASTIR.

Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 6 17:36:44 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA09995
for <lyris.aprsspec@tapr.org>; Wed, 6 Nov 2002 17:36:39 -0600 (CST)
Date: Wed, 6 Nov 2002 17:36:24 -0600 (CST)
From: "Timothy J. Salo" <salo@saloits.com>
Message-Id: <LYR11589-105922-2002.11.06-18.19.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-Reply-To: <LYR31168-105921-2002.11.06-18.10.08--
salo#saloits.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Timothy J. Salo" <salo@saloits.com>
X-Message-Id: <200211062336.RAA42822@www.saloits.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> Date: Wed, 06 Nov 2002 15:26:26 -0800
> To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
> From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
> Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
>
> >The Xastir source code is freely available under the GPL license ...
>
> Once you include it directly in your software, you're required to
> release your source code. No? The poison pill principle.
>
> Maybe it would be possible to use code on a non-GPL basis with permission

> from authors of individual sections of XASTIR.

You can extract the algorithms from code that is distributed under the GPL license and then re-implement then. Given the length of the code in question, this is probably feasible. Of course, I would like to think that you would release your new code under a Berkeley-style license.

But, no one seems to answered the question about how widely the compressed format is implemented. My impression is that in the past it was not widely implemented. Has this changed? (Insert long whine here about APRS implement ions immutably cast in silicon here.)

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 6 17:46:20 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA10228
for <lyris.aprsspec@tapr.org>; Wed, 6 Nov 2002 17:46:19 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Wed, 6 Nov 2002 15:44:10 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
In-Reply-To: <LYR29682-105921-2002.11.06-18.10.08--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-105923-2002.11.06-18.29.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 06 Nov 2002 23:46:09.0947 (UTC)
FILETIME=[AEB2F6B0:01C285EE]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0211061527040.1414-100000@wapiti.tc.fluke.com>

Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Wed, 6 Nov 2002, Bill Vodall - WA7NWP wrote:

> >The Xastir source code is freely available under the GPL license and
> >written in C.
>
> Once you include it directly in your software, you're required to
> release your source code. No? The poison pill principle.

True. You're required to make it available if the user requests it.
It doesn't have to be distributed with each binary though. It's all
in the "COPYING" file that's distributed with Xastir.

> Maybe it would be possible to use code on a non-GPL basis with permission
> from authors of individual sections of XASTIR.

Yes. This is possible and allowable. I think he was looking for
reference code though, not necessarily code to use outright. If you
do want to use that bit of code directly, let me know. We can
probably work something out. I think I wrote that portion. I
should be able to look up who did in any case.

It's always nice to have a working implementation to look at while
writing your own. The new version doesn't have to directly use any
code from the original. Just having something to test with that
does work is a real time-saver.

As always, Bill is looking at things with a critical eye. Keep it
up!

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Wed Nov 6 21:40:05 2002

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id VAA20467
for <lyris.aprsspec@tapir.org>; Wed, 6 Nov 2002 21:40:02 -0600 (CST)
Date: Wed, 06 Nov 2002 21:40:46 -0600
From: Mark Cheavens <mark@cheavens.com>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-reply-to: <LYR26418-105922-2002.11.06-18.19.59--mark@cheavens.com@lists.tapir.org>
X-Sender: mcheavens@hpserver.cheavens.com
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Message-id: <LYR11589-105970-2002.11.06-22.23.19--lyris.aprsspec@tapir.org@lists.tapir.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii; format=flowed
Content-transfer-encoding: 7BIT
<LYR31168-105921-2002.11.06-18.10.08--salo@saloints.com@lists.tapir.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: Mark Cheavens <mark@cheavens.com>
X-Message-Id: <5.1.0.14.2.20021106213817.02e90080@hpserver.cheavens.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

I did not answer previously since I figured that there would be a lot of posts about it!

As the digi sysop in Houston, I would guess that at least half of all packets transmitted locally are compressed packets.

Think:
Kenwood
Pic-E
TinyTracks

That accounts for a LOT of activity.

Mark Cheavens
KC5EVE

But, no one seems to answered the question about how widely the
>compressed format is implemented. My impression is that in the
>past it was not widely implemented. Has this changed? (Insert
>long whine here about APRS implement ions immutably cast in silicon
>here.)

>

>-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Nov 6 21:45:19 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA20523
for <lyris.aprsspec@tapr.org>; Wed, 6 Nov 2002 21:45:18 -0600 (CST)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
Date: Wed, 6 Nov 2002 21:45:45 +0000
User-Agent: KMail/1.4.3
References: <LYR19704-105970-2002.11.06-22.23.19--
jjeffers#aprsworld.net@lists.tapr.org>
In-Reply-To: <LYR19704-105970-2002.11.06-22.23.19--
jjeffers#aprsworld.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-105971-2002.11.06-22.28.39--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
X-Message-Id: <200211062145.45326.jjeffers@aprsworld.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA20523

> Think:
> Kenwood
> Pic-E
> TinyTracks

I think he was asking about base-91 compressed packets, not Mic-E.

-Jim KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 00:53:46 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA28347
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 00:53:34 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
Date: Thu, 7 Nov 2002 17:52:46 +1100
Message-ID: <LYR11589-106002-2002.11.07-01.36.53--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
In-Reply-To: <LYR11660-105985-2002.11.07-00.00.22--darryl#radio-active.net.au@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Scanner: exiscan *189gXK-0002dP-00*ijS3gbo1GDw* on Astaro Security Linux
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <000101c2862a\$4a921030\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day

There are two types of compression in APRS - MIC-E and Base 91.

MIC-E is fairly easy to impliment... Base 91 is much harder as it gives you a result that is 380926 points per degree latitude, or 190463 points per degree longitude.

Since all the APRS protocols use is usually defined as fractions of degrees, or fractions of minutes, or fractions of seconds, this number

is not easy to use.

Various people have commented that this protocol is not widely implemented for that reason. The math involved in getting a tracker to work on it is not nice in itself. The reason that base 91 was used was for accuracy, but for the minor use a full NMEA string is better used.

As for the copyright issue, I feel that looking at a code to see how they have implemented it is fine. But I cannot use many of the pieces of code since I want to be able to use some of the things that I am developing commercially, either by leasing the built units out, or by selling them commercially in the ham or commercial world.

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 01:38:35 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA29072
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 01:38:32 -0600 (CST)
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs
Date: Wed, 6 Nov 2002 23:52:57 -0800 (PST)
From: "Curt Mills, WE7U" <archer@eskimo.com>
X-Sender: archer@gatekeeper.we7u.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-Reply-To: <LYR29683-106002-2002.11.07-01.36.53--
archer@eskimo.com@lists.tapr.org>
Message-ID: <LYR11589-106005-2002.11.07-02.21.44--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
X-Message-Id: <Pine.LNX.4.04.10211062345520.28750-100000@gatekeeper.we7u.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Thu, 7 Nov 2002, Darryl Smith wrote:

> As for the copyright issue, I feel that looking at an code to see how
> they have implented it is fine. But I cannot use many of the pieces of
> code since I want to be able to use some of the things that I am
> developing commercially, either me leasing the built units out, or me
> selling them commercially in the ham or commercial world.

Note that a GPL Copyright does not mean that the code cannot be sold
or otherwise profitted from, it just means that the source code must
be made available. I (or anyone else) am free to charge whatever fee
I think I can extract. If I can get someone to pay me \$1000 or
\$10,000 per copy, more power to me. The license does not exclude
that.

If you want to develop something for which you can charge a pretty
penny and you don't want them to see what's "behind the curtain",
I'd suggest you learn what you can from the code and spec, extract
the algorithms, then code it up from scratch.

Curt, WE7U. archer@eskimo.com
<http://www.eskimo.com/~archer>
Lotto: A tax on people who are bad at math. - unknown
Windows: Microsoft's tax on computer illiterates. - WE7U.

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Nov 7 02:17:19 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id CAA00300
for <lyris.aprsspec@tappr.org>; Thu, 7 Nov 2002 02:17:18 -0600 (CST)
Reply-To: "max" <mxid@wilder.net>
From: "max" <mxid@wilder.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] OT open source, was: How widely implemened is APRS Compressed
format?

Date: Thu, 7 Nov 2002 00:16:46 -0800
Message-ID: <LYR11589-106007-2002.11.07-03.00.37--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 1 (Highest)
X-MSMail-Priority: High
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <LYR27581-106005-2002.11.07-02.21.44--mxd#wilder.net@lists.tapr.org>
Importance: High
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <BF932B3ACE3BA040B982E5E5A8E514C66B46@base.int.wilder.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

[m:.x:.d:.] We7U said to someone else:

> If you want to develop something for which you can charge a pretty
> penny and you don't want them to see what's "behind the curtain",
> I'd suggest you learn what you can from the code and spec, extract
> the algorithms, then code it up from scratch.

[m:.x:.d:.] I'd add that if you do this - since you won't let your code
be free (as in speech) - consider contributing to the community that
helped you create your program (by sharing their code with you) by
giving some of the profits back to projects that help advance open
source.

I'd suggest things like gnome (<http://www.gnome.org/friends/>), or
KDE (<http://www.kdeleague.org/contribute.php>).

Not using linux? Well, still consider helping people who share code. GNU
is pretty platform independent. (
<https://agia.fsf.org/mp/order.py?make-donation=1>)

<soapbox>

as an aside - and I'm not pointing to anyone in particular - I find it
very silly that people in the amateur radio community don't "get" the
open source philosophy more readily.

People sharing code means more people see code, learn how to code

better, and don't re-invent the wheel every time. This leads to more and better software. Rinse. Repeat. Open Source is automatic elmering. But, elmering has fallen out of fashion, I think....

I'm amazed that no one has written and released a general APRS parsing library. Everyone seems to do it from scratch. Why? Wouldn't the community be better served by creating a portable standard library that could be easily used by others? Has it been tried? I've never been able to find any record of such a thing. (by the way, if you want to work on a general APRS library, email me. I'm game.)

IMHO part of the death of packet was the inability of the pbbs authors to feel confident, or benevolent, enough to release their code so other people could help move it forward. It's much more important to them to collect a relatively paltry amount of money than to help advance and preserve their HOBBY for future generations. And for those that keep the system closed and don't ask for money, I'm baffled. Why would anyone ever do this??

Of course, there are exceptions. And, again, I'm not directing this at anyone in particular. It just frustrates me to see literally thousands of college kids sharing code and learning how to make better and better software while our hobbies state of the art digital systems run - by and large - on dos software that is barely maintained.

So, i guess you can flame me. But, just stating an opinion....

</soapbox>

73k6mxd
max

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 02:37:05 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id CAA01912
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 02:36:58 -0600 (CST)
Message-ID: <LYR11589-106008-2002.11.07-03.20.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 7 Nov 2002 08:34:28 +0000

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
References: <LYR26815-105970-2002.11.06-22.23.19--roger@peaksys.co.uk@lists.tapir.org>
In-Reply-To: <LYR26815-105970-2002.11.06-22.23.19--roger@peaksys.co.uk@lists.tapir.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyras Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <ovzJlMAUWiy9Ew66@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

In message <LYR26815-105970-2002.11.06-22.23.19--roger@peaksys.co.uk@lists.tapir.org>, Mark Cheavens <mark@cheavens.com> writes
>I did not answer previously since I figured that there would be a lot of
>posts about it!

Given that it has turned into yet another open source discussion, I was tempted to kill-file the thread...

>As the digi sysop in Houston, I would guess that at least half of all
>packets transmitted locally are compressed packets.

>

>Think:

>Kenwood

>Pic-E

>TinyTracks

They are Mic-E, I *think* the original question was about compressed format (base 91).

My experience suggests that it is not widely used. Also, because the level of support for compressed format varies between APRS clients, my recommendation to UI-View users is not to use it, unless they have a specific reason to do so.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 07:42:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA09077
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 07:42:29 -0600 (CST)
Message-ID: <LYR11589-106035-2002.11.07-08.25.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "Patrick Karp" <pkarp@conwaycorp.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR27202-106007-2002.11.07-03.00.37--
pkarp#conwaycorp.net@lists.tapr.org>
Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS
Compressed format?
Date: Thu, 7 Nov 2002 07:41:39 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Patrick Karp" <pkarp@conwaycorp.net>
X-Message-Id: <003501c28663\$6773c5c0\$6501a8c0@patslaptop>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Its called American greed! I'm proud to be an American don't get me wrong. However When you think that this is a hobby that does allot of community service, the folk that charge \$50-\$60 and higher to use their program is putting a big financial burden on the folks that just want to participate. There is something about the fact that it is against the law for me to make a dime with any of this software and they are trying to make \$50,000 to \$60,000 with it. Although I don't fully agree with your Open source idea. I do feel these programmers should contribute (They may in ways we don't see) to the hobby instead of making a buck from it. Thanks to open source and UIView there is still options available to everyone. 8)

----- Original Message -----

From: "max" <mxd@wilder.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Sent: Thursday, November 07, 2002 2:16 AM
Subject: [aprsspec] OT open source, was: How widely implemented is APRS
Compressed format?

> [m:.x:.d:.] We7U said to someone else:
>
> > If you want to develop something for which you can charge a pretty
> > penny and you don't want them to see what's "behind the curtain",
> > I'd suggest you learn what you can from the code and spec, extract
> > the algorithms, then code it up from scratch.
>
> [m:.x:.d:.] I'd add that if you do this - since you won't let your
code
> be free (as in speech) - consider contributing to the community that
> helped you create your program (by sharing their code with you) by
> giving some of the profits back to projects that help advance open
> source.
>
> I'd suggest things like gnome (<http://www.gnome.org/friends/>), or
> KDE (<http://www.kdeleague.org/contribute.php>).
>
> Not using linux? Well, still consider helping people who share code.
GNU
> is pretty platform independent. (
> <https://agia.fsf.org/mp/order.py?make-donation=1>)
>
> <soapbox>
>
> as an aside - and I'm not pointing to anyone in particular - I find
it
> very silly that people in the amateur radio community don't "get"
the
> open source philosophy more readily.
>
> People sharing code means more people see code, learn how to code
> better, and don't re-invent the wheel every time. This leads to more
and
> better software. Rinse. Repeat. Open Source is automatic elmering.
But,
> elmering has fallen out of fashion, I think....
>
> I'm amazed that no one has written and released a general APRS
parsing
> library. Everyone seems to do it from scratch. Why? Wouldn't the
> community be better served by creating a portable standard library
that

> could be easily used by others? Has it been tried? I've never been
able
> to find any record of such a thing. (by the way, if you want to work
on
> a general APRS library, email me. I'm game.)
>
> IMHO part of the death of packet was the inability of the pbbs
authors
> to feel confident, or benevolent, enough to release their code so
other
> people could help move it forward. It's much more important to them
to
> collect a relatively paltry amount of money than to help advance and
> preserve their HOBBY for future generations. And for those that keep
the
> system closed and don't ask for money, I'm baffled. Why would anyone
> ever do this??
>
> Of course, there are exceptions. And, again, I'm not directing this
at
> anyone in particular. It just frustrates me to see literally
thousands
> of college kids sharing code and learning how to make better and
better
> software while our hobbies state of the art digital systems run - by
and
> large - on dos software that is barely maintained.
>
> So, i guess you can flame me. But, just stating an opinion....
>
> </soapbox>
>
> 73k6mxd
> max
>
>
>
>
> ---
> You are currently subscribed to aprsspec as: pkarp@conwaycorp.net
> To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator:
waillou@tapr.org
>
>
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 12:30:42 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA20505
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 12:30:41 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Thu, 7 Nov 2002 10:28:13 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-Reply-To: <LYR29682-106008-2002.11.07-03.20.22--
curt.mills@fluke.com@lists.tapr.org>
Message-ID: <LYR11589-106051-2002.11.07-13.13.56--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 07 Nov 2002 18:30:11.0378 (UTC)
FILETIME=[B4ECA920:01C2868B]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0211071014350.1414-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 7 Nov 2002, Roger Barker wrote:

> Given that it has turned into yet another open source discussion, I was
> tempted to kill-file the thread...

But if you killed all open-source discussions, you'd miss all the
good technical issues. ;-)

> They are Mic-E, I **think** the original question was about compressed
> format (base 91).

Hard to tell. "Compressed" means one thing in the APRS Spec. It means another in everyday usage. I'd normally consider "compressed" to be either Mic-E or the Compressed lat/lon as defined in the spec. Too bad another name wasn't picked for the spec's "Compressed" description.

> My experience suggests that it is not widely used. Also, because the
> level of support for compressed format varies between APRS clients, my
> recommendation to UI-View users is not to use it, unless they have a
> specific reason to do so.

And in the spirit of pushing the limits, I'd encourage all of the Xastir users and anyone else using with APRS clients capable of it to use compressed posits, compressed objects, compressed items, and anything else that's in the spec and not well implemented across all clients. That might encourage the authors to get off their duffs and implement what's in the spec.

Please note that Xastir doesn't implement everything in the spec yet either, so I'm thumbing my nose at our project as well. ;-)

Obligatory Open-Source: I'm for open-source. I release sources under GPL, BSD-style licenses, and in the public-domain. I also have some things I don't publish because I intend to make money on them, or because they could cause harm if released to the general populace and somebody had a mean streak in them. I'm not against making money with software. Some projects make sense to do that with, some don't. Anyone who claims that one way is the only/right way isn't seeing the whole picture.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 13:08:48 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA21689
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 13:08:46 -0600 (CST)
Message-ID: <LYR11589-106057-2002.11.07-13.52.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 7 Nov 2002 19:08:16 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
References: <LYR29682-106008-2002.11.07-03.20.22--
curt.mills#fluke.com@lists.tapr.org>
<Pine.LNX.4.33.0211071014350.1414-100000@wapiti.tc.fluke.com>
In-Reply-To: <Pine.LNX.4.33.0211071014350.1414-100000@wapiti.tc.fluke.com>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <bm0V37Agory9Ewt\$@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <Pine.LNX.4.33.0211071014350.1414-100000@wapiti.tc.fluke.com>
, Curt Mills, WE7U <hacker@tc.fluke.com> writes
>On Thu, 7 Nov 2002, Roger Barker wrote:
>
>> Given that it has turned into yet another open source discussion, I was
>> tempted to kill-file the thread...
>
>But if you killed all open-source discussions, you'd miss _all_ the
>good technical issues. ;-)

It's mind-numbingly BORING, and it's incredibly negative to turn one
topic after another into a discussion of what amounts to a religion.
(IMHO, of course ;-)

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 13:44:24 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA22870
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 13:44:19 -0600 (CST)
From: "isi" <rcarter@isi.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
Date: Thu, 7 Nov 2002 14:44:01 -0500
Message-ID: <LYR11589-106062-2002.11.07-14.27.38--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V5.00.2314.1300
Importance: Normal
In-Reply-To: <LYR13907-106057-2002.11.07-13.52.06--rcarter@isi.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "isi" <rcarter@isi.com>
X-Message-Id: <NBBBjjKGMKOEJPIIFEGMEMFLCAC.rcarter@isi.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This sounds like religion to me ;)

> It's mind-numbingly BORING, and it's incredibly negative to turn one
> topic after another into a discussion of what amounts to a religion.
> (IMHO, of course ;-)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 17:20:37 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA02341
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 17:20:37 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Date: Thu, 7 Nov 2002 18:20:04 -0500
In-Reply-To: <LYR22299-106002-2002.11.07-01.36.53--
jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-106082-2002.11.07-18.04.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Jeff King <jeff#aerodata.net>
X-Message-Id: <20021107231635.LEPE14813.hughes-fe02@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id RAA02341

On Thu, 7 Nov 2002 17:52:46 +1100, Darryl Smith wrote:

>The reason that base 91 was used was
>for accuracy, but for the minor use a full NMEA string is better
>used.

Base 91 was used, I believe, so in the late 1990's so we all would be able to see printable characters on our screen. Go figure.

The "compressed" part of the name means it is a terse positional format, which it is, especially considering it gives better accuracy then the standard format or MIC-E. With SA being off, and the introduction of WAAS, we sorely need something like this.

NMEA can give the accuracy but it is very verbose.

As an aside, since the "compressed format" is not widely supported, I wonder how many authors would be willing to support a new protocol (not part of the APRS-SPEC) that is designed to be both computer friendly, accurate, and terse? Even using something as simple as BCD, you could get two digits per byte and very easy to parse and integer friendly.

I seem to recall UI-View went off the beaten path developing their own protocol. I wonder if they addressed this?

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 17:27:02 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA02542
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 17:26:54 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Thu, 7 Nov 2002 15:24:45 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemented is APRS Compressed format?
In-Reply-To: <LYR29682-106082-2002.11.07-18.04.00--
curt.mills@fluke.com@lists.tapr.org>
Message-ID: <LYR11589-106083-2002.11.07-18.10.15--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 07 Nov 2002 23:26:42.0696 (UTC)
FILETIME=[21605880:01C286B5]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0211071520390.1351-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 7 Nov 2002, Jeff King wrote:

> On Thu, 7 Nov 2002 17:52:46 +1100, Darryl Smith wrote:
>
> >The reason that base 91 was used was
> >for accuracy, but for the minor use a full NMEA string is better
> >used.
>
> Base 91 was used, I believe, so in the late 1990's so we all would be able to
> see printable characters on our screen. Go figure.

I would think that we could get away from the "printable" requirement these days. It'd be a big win if so.

> The "compressed" part of the name means it is a terse positional format,
> which it is, especially considering it gives better accuracy than the
> standard format or MIC-E. With SA being off, and the introduction of WAAS, we
> sorely need something like this.

Yes! I sometimes uses compressed objects/items just so that I can have precise positioning of the darn things. If I don't, they jump to one of the standard APRS grid positions. Very annoying.

> As an aside, since the "compressed format" is not widely supported, I wonder
> how many authors would be willing to support a new protocol (not part of the
> APRS-SPEC) that is designed to be both computer friendly, accurate, and
> terse? Even using something as simple as BCD, you could get two digits per
> byte and very easy to parse and integer friendly.

If at least preliminary agreement on this could be made, Xastir would certainly implement it.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 19:35:36 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id TAA06454
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 19:35:35 -0600 (CST)
Date: Thu, 7 Nov 2002 20:35:08 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
In-Reply-To: <LYR11586-105815-2002.11.06-01.42.59-->

bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-106091-2002.11.07-20.18.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0211072034340.10230-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Wed, 6 Nov 2002, Darryl Smith wrote:

> How widely implemented is the APRS compressed format. I want to do some
> decoding in a PIC and it seems to me that dividing by 91, and then
> converting from decimal degrees to degrees with decimal minutes may be
> outside the capabilities of the IC.

Much easier to do it with the Mic-E format. I designed that format to be
simple bit manipulation... trivial in a PIC...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Thu Nov 7 19:40:37 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA06578
for <lyris.aprsspec@tappr.org>; Thu, 7 Nov 2002 19:40:28 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: How widely implemented is APRS Compressed format?
Date: Fri, 8 Nov 2002 12:38:57 +1100
Message-ID: <LYR11589-106092-2002.11.07-20.23.50--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;

charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
In-Reply-To: <Pine.GS0.4.44.0211072034340.10230-100000@arctic>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Scanner: exiscan *189y7z-0005Zo-00*Ga3B9q2w0nM* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <004501c286c7\$9d9de5e0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

The MIC-E is trivial apart from the degrees in the TO CALLSIGN having a protocol bug where 0-9 are 0x30->39; A-J are 0x41-4A and P-Y are 0x50-59. So much easier if it was 0->X as the characters... Then you just need to do a bitwise and to get rid of the message fields... Or the N/S fields...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

-----Original Message-----
From: Bob Bruninga [mailto:bruninga@usna.edu]
Sent: Friday, 8 November 2002 12:35 PM
To: Darryl Smith
Cc: APRS Spec Discussion List
Subject: Re: [aprsspec] How widely implemented is APRS Compressed format?

On Wed, 6 Nov 2002, Darryl Smith wrote:

> How widely implemented is the APRS compressed format. I want to do
> some decoding in a PIC and it seems to me that dividing by 91, and
> then converting from decimal degrees to degrees with decimal minutes
> may be outside the capabilities of the IC.

Much easier to do it with the Mic-E format. I designed that format to be simple bit manipulation... trivial in a PIC...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 7 21:43:12 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA10798
for <lyris.aprsspec@tapr.org>; Thu, 7 Nov 2002 21:43:10 -0600 (CST)
Date: Thu, 7 Nov 2002 22:42:40 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
In-Reply-To: <LYR11586-106002-2002.11.07-01.36.53--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-106112-2002.11.07-22.26.32--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0211072238210.22234-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Thu, 7 Nov 2002, Darryl Smith wrote:

> MIC-E is fairly easy to impliment... Base 91 is much harder as it gives
> you a result that is 380926 points per degree latitude, or 190463 points
> per degree longitude.

But those integers were very carefully chosen so that all the math can still be done with single precision integers (16 bit) (as I do in APRSdos). If you want to retain the 1 foot precision, you need double precision, but by dividing by a constant, you can do it all in single

precision and still get posits to the nearest .01 minute (just like standard APRS formats)...

Id have to look up the details, but it was easy...

Bob, WB4APR

Id still go with Mic-E as the simplest and 100% fully implemented version...

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 01:12:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA19636
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 01:12:24 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] OT open source, was: How widely implemened is APRS Compressed format?
Date: Fri, 8 Nov 2002 18:11:32 +1100
Message-ID: <LYR11589-106144-2002.11.08-01.55.47--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR11660-106120-2002.11.08-00.00.10--darryl#radio-active.net.au@lists.tapr.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-Scanner: exiscan *18A3JE-0006MF-00*2KwEBbeij4I* on Astaro Security Linux
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <000a01c286f6\$141766f0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Max and Others...

Thanks to all those who have answered questions on the APRS spec. It has been much appreciated. I am so glad that the spec is there and is so well written.

Since I was the one that the message from Curt was directed at about open source, and I commented that I was unable to use the GPL for various reasons, I have decided to comment. I know this is not an attack on me, but I think some things need to be said.

>[m:.x:.d:.] I'd add that if you do this - since you won't let your
>code be free (as in speech) - consider contributing to the community
>that helped you create your program (by sharing their code with you) by

>giving some of the profits back to projects that help advance open
source.

Personally I don't think that it would be appropriate for me to be supporting Open Source in lieu of opening the code up. Most of the ideas are from Ham Radio, so if I were to contribute, I would have to contribute to a Ham Radio organisation. After all, the open source people have done exactly zero to help me with this project - not the tools, spec, ideas, etc.

So I make a donation to TAPR - and in a way that TAPR needs most - in my time. I am not sure if any of you realise this, but I am now on the board of TAPR - as of the DCC in denver. I live in Sydney, Australia. Even to get to LA is a horrible 14 hour flight in a cramped 747. And I have made a commitment to be an active board member of TAPR, attending the board meetings a great personal cost to me.

I have never in my life seen a comment suggesting that PacComm or Kantronics should be opening their source code and giving it away, although I am sure that it has been said. I see that it is OK for them to keep their hard work closed source. After all it is their business.

When I realised the software to convert DXF files to MAP files for WinAPRS, I didn't release the source, but I made the software free. The wrong people would have needed to pay in order to use the software - the people who do things rather than the people who use things. I made the software available to anyone who needed it, but mostly changed the code as required. I recently opened the source too...

I have been part of the LINUX community longer than anyone I can think of, apart from LINUS himself. I was one of the few hundred members of the MINIX mailing list when he released LINUX. I love LUNIX, and run it

for servers. I am just as proud that I spend more time on my Windows XP laptop.

There is no requirement in Ham Radio to 'Get' the open source philosophy. I remember hearing Lyle Johnson talking about Ham Radio being the NATIONAL PARK OF WIRELESS. Funny thing is that you must PAY to get in to many National Parks. Access is FREE, just that you have to pay.

At this point I should also say what I do for a living. I am self employed - as a consultant engineer. I am struggling to make a living for myself - and so I need to make every cent count. If I can write some software and develop some hardware and sell it, at a price that is reasonable then there is nothing wrong with that.

>I'm amazed that no one has written and released a general APRS parsing
>library. Everyone seems to do it from scratch. Why? Wouldn't the
community
>be better served by creating a portable standard library that could be
>easily used by others? Has it been tried? I've never been able to find
>any record of such a thing. (by the way, if you want to work on a
general
>APRS library, email me. I'm game.)

That would be fantastic. You just need to make sure that the licenses is appropriate, and will allow the software to get used. There is cheap commercial software out there (like UI-View) that would have great troubles if they wanted to use a GPL'ed license code in their software [I have lost count of how many copies of UI-View I have registered just so I can pay roger some more for his software :-)]. The license would need to be open so that modifications to the parsing code were public regardless, but that the resulting application could be sold without restriction.

>From Curt
>Although I don't fully agree with your Open source idea. I do feel
these
>programmers should contribute (They may in ways we don't see) to the
hobby instead
>of making a buck from it. Thanks to open source and Uiview there is
>still options available to everyone. 8)

Programmers do contribute - by writing software.

>Obligatory Open-Source: I'm _for_ open-source. I release sources
under

>GPL, BSD-style licenses, and in the public-domain. I also have some things
>I don't publish because I intend to make money on them, or because they could
>cause harm if released to the general populace and somebody had a mean streak
>in them. I'm not against making money with software. Some projects make sense
>to do that with, some don't. Anyone who claims that one way is the only/right
>way isn't seeing the whole picture.

Interestingly, there is no such thing as software placed into the PUBLIC DOMAIN - especially in the USA where Sonny Bono managed to extend the Copyright Act... The only way for anything to enter public domain is for the copyright to extinguish. There was an interesting article on that in the Linux Journal - October or november just inside the back cover.

Anyway that is too long an email...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 10:00:07 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA11690
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 10:00:00 -0600 (CST)
X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs
Date: Fri, 8 Nov 2002 08:14:57 -0800 (PST)
From: "Curt Mills, WE7U" <archer@eskimo.com>
X-Sender: archer@gatekeeper.we7u.net
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>,
"Mills, Curt, WE7U" <archer@eskimo.com>,
"Curt, WE7U Mills" <hacker@etc.fluke.com>
Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS

Compressed format?

In-Reply-To: <LYR29683-106144-2002.11.08-01.55.47--
archer#eskimo.com@lists.tapr.org>

Message-ID: <LYR11589-106180-2002.11.08-10.43.24--
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: "Curt Mills, WE7U" <archer#eskimo.com>

X-Message-Id: <Pine.LNX.4.04.10211080810090.20299-1000000@gatekeeper.we7u.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Fri, 8 Nov 2002, Darryl Smith wrote:

> Since I was the one that the message from Curt was directed at about
> open source, and I commented that I was unable to use the GPL for
> various reasons, I have decided to comment. I know this is not an attack
> on me, but I think some things need to be said.

>

> >[m:.x:.d:.] I'd add that if you do this - since you won't let your
> >code be free (as in speech) - consider contributing to the community
> >that helped you create your program (by sharing their code with you) by

>

> >giving some of the profits back to projects that help advance open
> source.

Wait a minute, I didn't say any of that! I think it was someone named
Max?

> >I'm amazed that no one has written and released a general APRS parsing
> >library. Everyone seems to do it from scratch. Why? Wouldn't the
> community

> >be better served by creating a portable standard library that could be
> >easily used by others? Has it been tried? I've never been able to find
> >any record of such a thing. (by the way, if you want to work on a
> general

> >APRS library, email me. I'm game.)

Again. Not me!

> >From Curt

> >Although I don't fully agree with your Open source idea. I do feel
> these
> >programmers should contribute (They may in ways we don't see) to the
> hobby instead
> >of making a buck from it. Thanks to open source and UIView there is
> >still options available to everyone. 8)

Again. Not me!

> Programmers do contribute - by writing software.
>
> >Obligatory Open-Source: I'm _for_ open-source. I release sources
> under
> >GPL, BSD-style licenses, and in the public-domain. I also have some
> things
> >I don't publish because I intend to make money on them, or because they
> could
> >cause harm if released to the general populace and somebody had a mean
> streak
> >in them. I'm not against making money with software. Some projects
> make sense
> >to do that with, some don't. Anyone who claims that one way is the
> only/right
> >way isn't seeing the whole picture.

Now that was me, but it was kind of a P.S. at the end of an on-topic message and wasn't intended to get sucked off separately into this thread.

I'm an open-source developer, but I'm not quite as in-your-face as some of the others. I just keep nudging here and there. ;-)

Curt, WE7U. archer@eskimo.com
<http://www.eskimo.com/~archer>

Lotto: A tax on people who are bad at math. - unknown
Windows: Microsoft's tax on computer illiterates. - WE7U.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 10:09:34 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id KAA13129

for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 10:09:32 -0600 (CST)
Content-Type: text/plain;
charset="iso-8859-1"
From: James Jefferson <jjeffers@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS
Compressed format?
Date: Fri, 8 Nov 2002 10:10:03 +0000
User-Agent: KMail/1.4.3
References: <LYR19704-106180-2002.11.08-10.43.24--
jjeffers#aprsworld.net@lists.tapr.org>
In-Reply-To: <LYR19704-106180-2002.11.08-10.43.24--
jjeffers#aprsworld.net@lists.tapr.org>
MIME-Version: 1.0
Message-Id: <LYR11589-106187-2002.11.08-10.52.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: James Jefferson <jjeffers@aprsworld.net>
X-Message-Id: <200211081010.03526.jjeffers@aprsworld.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id KAA13129

On Friday 08 November 2002 04:14 pm, Curt Mills, WE7U wrote:

> > >I'm amazed that no one has written and released a general APRS parsing
> > >library. Everyone seems to do it from scratch. Why? Wouldn't the
> >
> > community
> >
> > >be better served by creating a portable standard library that could be
> > >easily used by others? Has it been tried? I've never been able to find
> > >any record of such a thing. (by the way, if you want to work on a
> >
> > general
> >
> > >APRS library, email me. I'm game.)

There are general purpose APRS parsing programs. People wrote them from scratch because there weren't any. I can think of at least three. XAstir. Aprsdec. and my aprsworld parser. Pulling the parsing routines out of XAstir and my parser is almost trivial, and I haven't tried aprsdec but I suspect it would be too!

-Jim KB0THN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 11:11:10 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17375
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 11:11:05 -0600 (CST)
Reply-To: "max" <mxd@wilder.net>
From: "max" <mxd@wilder.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] General APRS library proposal (of sorts..)
Date: Fri, 8 Nov 2002 09:10:49 -0800
Message-ID: <LYR11589-106189-2002.11.08-11.54.33--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 1 (Highest)
X-MSMail-Priority: High
Importance: High
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <LYR27581-106187-2002.11.08-10.52.59--mxd@wilder.net@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
X-Message-Id: <BF932B3ACE3BA040B982E5E5A8E514C66B4A@base.int.wilder.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> On Friday 08 November 2002 04:14 pm, Curt Mills, WE7U wrote:

[m:.x:.d:.] Actually, curt didn't write this. I did.

> > > I'm amazed that no one has written and released a general APRS
> parsing
> > > library. Everyone seems to do it from scratch. Why? Wouldn't the
> > >
> > > community
> > >
> > > be better served by creating a portable standard library that

could
> be
> > > >easily used by others? Has it been tried? I've never been able to
> find
> > > >any record of such a thing. (by the way, if you want to work on a
> > >
> > > general
> > >
> > > >APRS library, email me. I'm game.)
>
> There are general purpose APRS parsing programs. People wrote them
from
> scratch because there weren't any. I can think of at least three.
XAstir.
> Aprsdec. and my aprsworld parser. Pulling the parsing routines out of
> XAstir
> and my parser is almost trivial, and I haven't tried aprsdec but I
suspect
> it
> would be too!

[m:.x:.d:.] I stand (semi) corrected. There are programs, and they
include parsers. What I'm talking about is a general purpose _stand
alone_ parsing library that can be included, either via linking
(libaprs.so, libaprs.dll, anyone?) or source inclusion.

Aprsdec is a perfect example of a well developed parser, but to use it
effectively I'd be forced to write in perl. It's not general purpose.
Your aprsworld parser is well developed, but still doesn't quite fit the
bill as general purpose. Its designed to parse and stuff into a
database. Xastir has a similar issue, its parsing is fully intertwined
with the application. After looking at the code and thinking about how I
would make it generic, we may have different ideas as to what "trivial"
means.

i'd like to seriously propose that we create a parsing library that has
the following characteristics:

1> portable. This means not only that it will run on any (reasonable)
platform, but can be used from most languages. A linkable library is
probably the key here, although the ability to do source inclusion is a
plus.

2> generic. Doesn't make any presumptions beyond being handed data and
handing parsed data back. No dealing directly with a tnc or with tcp
streams. No mucking about with databases or files. No reliance on
application provided i/o.

3> useable. As a part of developing the library, creating stub classes/functions so it could be a drop in replacement for existing parsing routines inside programs. So, for instance, if I decided that I'd like to link to this library out of xastir, the library source should include stubs to make that possible. Oh, this is probably non-trivial. :-)

4> documented. While this wouldn't be a reference implementation, it should be documented clearly against the spec. not surprisingly, aprsdec does an incredible job of this, we should emulate that work.

5> free and open. You know what I mean.

There. Its more of an intimation to a proposal than an actual proposal, but you get my drift. I'm willing to work on it, but not alone - and not if this community doesn't see a need.

K6mxd
Max

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 11:24:15 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id LAA17815
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 11:24:07 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Fri, 8 Nov 2002 09:21:58 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: OT open source, was: How widely implemened is APRS
Compressed format?
In-Reply-To: <LYR29682-106187-2002.11.08-10.52.59--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-106190-2002.11.08-12.07.34--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 08 Nov 2002 17:28:15.0252 (UTC)
FILETIME=[385A9540:01C2874C]

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0211080919580.1351-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Fri, 8 Nov 2002, James Jefferson wrote:

> There are general purpose APRS parsing programs. People wrote them from
> scratch because there weren't any. I can think of at least three. XAstir.
> Aprsdec. and my aprsworld parser. Pulling the parsing routines out of XAstir
> and my parser is almost trivial, and I haven't tried aprsdec but I suspect it
> would be too!

You can go to <http://sourceforge.net> and type in "APRS" in the
search box. You'll find some C++ class libraries, some Java stuff,
Xastir, APRSWorld, and others.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 8 13:53:23 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23394
for <lyris.aprsspec@tappr.org>; Fri, 8 Nov 2002 13:53:21 -0600 (CST)
Message-Id: <LYR11589-106205-2002.11.08-14.36.43--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Fri, 08 Nov 2002 11:52:49 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] Re: OT open source, was: How widely implemened is APRS
Compressed format?

In-Reply-To: <LYR19173-106144-2002.11.08-01.55.47--wa7nwp@yahoo.com@lists.tappr.org>
References: <LYR11660-106120-2002.11.08-00.00.10--darryl@radio-active.net.au@lists.tappr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20021108114806.00ab91c0@pioneer.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

At 06:11 PM 11/8/02 +1100, Darryl Smith wrote:

>I have never in my life seen a comment suggesting that PacComm or
>Kantronics should be opening their source code and giving it away,
>although I am sure that it has been said. I see that it is OK for them
>to keep their hard work closed source. After all it is their business.

I guess I'll have to say it more often. I've long suggested that Kantronics would sell more units if they released either the full source or an SDK for their KPC-3's. Amazing little boxes but the existing software, as good as it is, isn't what it could be.

One of these months somebody will have time to start up an open source project either for the Kantronics or stock TNC-2's and we'll finally be able to make some good progress on the basic client and node systems.

73,
Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 8 14:03:05 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA23670
for <lyris.aprsspec@tappr.org>; Fri, 8 Nov 2002 14:03:04 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tappr.org>,
 "'Curt, WE7U Mills'" <hacker@tc.fluke.com>
Subject: [aprsspec] RE: OT open source, was: How widely implemened is APRS
Compressed format?
Date: Sat, 9 Nov 2002 07:02:04 +1100
Message-ID: <LYR11589-106207-2002.11.08-14.46.31--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <Pine.LNX.4.04.10211080810090.20299-100000@gatekeeper.we7u.net>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-Scanner: exiscan *18AFL4-0004xX-00*GgBzY2.1.hc* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <001101c28761\$b834a2f0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

G'Day All...

I need to appologise to Curt for the impression that he made comments that he clearly did not make. That was not my intention. Curt has at all times been very low-key with his suggestions on the use of open source software.

What I was intending to say was that low key comments by him and others were taken and conciderably extended. Carefully examining the area at the start of the first quoted area does reveal [M.X.D] or the last three letters of Max's call.

Where I really did stuff up was the following paragraph from "Patrick Karp" <pkarp@conwaycorp.net> where I wrongly attribited it... Sorry.

```
>> >From Curt
>> >Although I don't fully agree with your Open source idea. I do feel
>> these
>> >programmers should contribute (They may in ways we don't see) to the
>> hobby instead
>> >of making a buck from it. Thanks to open source and UIView there
```

is
>> >still options available to everyone. 8)
>
>Again. Not me!

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 14:18:50 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA24217
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 14:18:43 -0600 (CST)
Message-ID: <LYR11589-106208-2002.11.08-15.02.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 06 Nov 2002 18:59:06 -0700
From: Gerry Creager <gerry.creager@tamu.edu>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.0.1) Gecko/20020826
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How widely implemened is APRS Compressed format?
References: <LYR30395-105815-2002.11.06-01.42.59--
hacker#tc.fluke.com@lists.tapr.org> <LYR22347-105921-2002.11.06-18.10.08--
n5jxs#tamu.edu@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Gerry Creager <gerry.creager@tamu.edu>
X-Message-Id: <3DC9C8EA.3050004@tamu.edu>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

No, but any changes to the code fragments that were used... note the distinction... must be available, and by convention the source is distributed.

Open Source is not a guard against private enterprise. It does remove some of the more restrictive concerns about licensing and subsequent source distribution, and does attempt to keep those elements designated for full release stay fully available.

gerry

Bill Vodall - WA7NWP wrote:

```
>>The Xastir source code is freely available under the GPL license and
>>written in C.
>
>
> Once you include it directly in your software, you're required to
> release your source code. No? The poison pill principle.
>
> Maybe it would be possible to use code on a non-GPL basis with permission
> from authors of individual sections of XASTIR.
>
> Bill - WA7NWP
>
>
>
> ---
> You are currently subscribed to aprsspec as: n5jxs@tamu.edu
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
```

--

Gerry Creager -- gerry.creager@tamu.edu
Network Engineering -- AATLT, Texas A&M University
Office: 979.458.4020 FAX: 979.847.8578
Cell: 979.229.4301 Pager: 979.228.0173

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Fri Nov 8 14:53:03 2002

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id OAA25593
for <lyris.aprsspec@tapir.org>; Fri, 8 Nov 2002 14:53:00 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Date: Fri, 8 Nov 2002 15:52:22 -0500
In-Reply-To: <LYR22299-106205-2002.11.08-14.36.43--
jeff#aerodata.net@lists.tapir.org>
Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS
Compressed format?
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapir.org>>
Reply-To: Jeff King <jeff@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Message-Id: <LYR11589-106211-2002.11.08-15.36.23--
lyris.aprsspec#tapir.org@lists.tapir.org>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapir.org id OAA25593

On Fri, 08 Nov 2002 11:52:49 -0800, Bill Vodall - WA7NWP wrote:

>One of these months somebody will have time to start up an open
>source
>project either for the Kantronics or stock TNC-2's and we'll finally
>be able
>to make some good progress on the basic client and node systems.

Already done on the TNC2. thenet and X1J node code is open source. Also, APRS
UI-DIGI was based on nordlink TNC code, but source was never released. He
appears to be in violation of the nordlink agreement by not releasing but
don't quote me.

<http://www.nordlink.org/eng/index.htm>

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 16:12:32 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA29573
for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 16:12:26 -0600 (CST)
Message-Id: <LYR11589-106215-2002.11.08-16.55.49--
lyris.aprsspec@tapr.org@lists.tapr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Fri, 08 Nov 2002 14:12:05 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS
Compressed format?
In-Reply-To: <LYR19173-106211-2002.11.08-15.36.23--wa7nwp@yahoo.com@lists.
s.tapr.org>
References: <LYR22299-106205-2002.11.08-14.36.43--
jeff#aerodata.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20021108140405.00ae0450@pioneer.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 03:52 PM 11/8/02 -0500, Jeff King wrote:

>On Fri, 08 Nov 2002 11:52:49 -0800, Bill Vodall - WA7NWP wrote:
>
> >One of these months somebody will have time to start up an open
> >source
> >project either for the Kantronics or stock TNC-2's and we'll finally
> >be able
> >to make some good progress on the basic client and node systems.
>
>Already done on the TNC2. thenet and X1J node code is open source.

I know. It might be a good start. The problem isn't the source - it's the development environment. Bet you a cold one of your favorite variety you can't compile the source to create a stock X1J ROM image.

Considering the questionable birth of X1J to start with I'd like to get something

going from a clean beginning. I think the source for a KISS implementation is available - that's where I'd start.

>Also, APRS

>UI-DIGI was based on nordlink TNC code, but source was never released.

>appears to be in violation of the nordlink agreement by not releasing but

>don't quote me. <http://www.nordlink.org/eng/index.htm>

Give me two cold ones and I'll say more of the same.

Bill - WA7NWP

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Nov 8 16:57:16 2002

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id QAA01199

for <lyris.aprsspec@tapr.org>; Fri, 8 Nov 2002 16:57:13 -0600 (CST)

From: Jeff King <jeff@aerodata.net>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Date: Fri, 8 Nov 2002 17:56:14 -0500

In-Reply-To: <LYR22299-106215-2002.11.08-16.55.49--

jeff#aerodata.net@lists.tapr.org>

Subject: [aprsspec] Re: OT open source, was: How widely implemented is APRS Compressed format?

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: Jeff King <jeff@aerodata.net>

Sender: bounce-aprsspec-11589@lists.tapr.org

Message-Id: <LYR11589-106217-2002.11.08-17.40.14--

lyris.aprsspec#tapr.org@lists.tapr.org>

Precedence: bulk

Content-Transfer-Encoding: 8bit

X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id QAA01199

On Fri, 08 Nov 2002 14:12:05 -0800, Bill Vodall - WA7NWP wrote:

>Considering the questionable birth of X1J to start with

Netrom (software 2000) was written in assembler, X1J was written in C by a englishman. What is questionable here? I take all the gossip from the late 80's with a grain of salt. Software 2000 left the amateur scene year's ago... Nordlink (of germany) is still involved and actually contributing much.

I thought the whole idea of open source was to share? Why throw away all their experience and start with KISS... which if you read Phil Karn's paper KISS was a kludge to begin with.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 11 13:48:23 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA00115
for <lyris.aprsspec@tapr.org>; Mon, 11 Nov 2002 13:48:19 -0600 (CST)
Message-Id: <LYR11589-106582-2002.11.11-14.31.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-Sender: wa7nwp@pop.mail.yahoo.com
Date: Mon, 11 Nov 2002 11:47:59 -0800
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
Subject: [aprsspec] Re: OT open source, was: How widely implemened is APRS
Compressed format?
In-Reply-To: <LYR19173-106217-2002.11.08-17.40.14--wa7nwp#yahoo.com@list
s.tapr.org>
References: <LYR22299-106215-2002.11.08-16.55.49--
jeff#aerodata.net@lists.tapr.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bill Vodall - WA7NWP <wa7nwp@yahoo.com>
X-Message-Id: <4.2.0.58.20021111102608.00ace490@pioneer.net>

Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

At 05:56 PM 11/8/02 -0500, Jeff King wrote:

> >Considering the questionable birth of X1J to start with
>
>Netrom (software 2000) was written in assembler, X1J was written in C by a
>englishman. What is questionable here?

I was going to write:

Nothing!

Software 2000 wrote Netrom.

Some folks disassembled it. Changed the order of some function parameters and released the source code. Software 2000 wisely left the amateur market for greener pastures where they would be rewarded for their efforts. That's good business - and a loss for Amateur radio.

Some folks in Arizona supported the released TheNet software for a while.

Then Dave, G8KBB, picked up on the TheNet code and supported it for a few years under the name X1... I think that was for eXperimental release 1 of a new TheNet code. His last release was X1 version J - thus X1J.

Some of Dave's additions were in C. The core is still the basic TheNet assembly.

Now, after a bit of web research I have to take back the "!" from Nothing. I don't believe their's any question that there was an original release of source from a disassembled Netrom.

Following this thread for some interesting discussion:

<http://www.mail-archive.com/linux-hams@vger.rutgers.edu/msg00393.html>

How that relates to the release of TheNet Version 1.0 source is a bit fuzzy and certainly not worth the effort do spend much time researching nor to be fully discussed yet again here.

Once again the "Vector Board" file archive showed up in a search for old code. <http://www.vectorbd.com/bfd/thenet/>

It appears the compile environment isn't as obscure as I thought. Should be able to come up with an old Microsoft C80 compiler and M80 assembler around here somewhere. The peephole optimizer might be a bit trickier to find, but if we don't try to shoehorn in all the features, it might not be necessary to go to the dual bank switching trick which will simplify things a lot.

What ever happens with this code branch, it'll forever carry the ghost of Software 2000.

> Software 2000 left the amateur scene year's ago...
>Nordlink (of germany) is still involved and actually contributing much.

Which doesn't change the reason that Software 2000 left the amateur scene.

>I thought the whole idea of open source was to share?

Some share more then others. Which is terrific if that's what one chooses to do. To have your efforts shared by others to your personal detriment is not a good thing. We see this today. Notice the lack of software coming from both Paccomm and Kantronics? Maybe if there were less shared ROMS in digi's and TNC's out there we'd be seeing new and better software.

Also read Steve's comment on why the source for Findu isn't open. It's down a couple paragraphs at <http://www.findu.com/>. He's right on!

Just because it's essentially free to copy (steal) software, doesn't make it cheap to development and support. It takes a lot of time to do it right and that's expensive in the commercial world. It's even expensive in the GNU world. Folks put in many hours doing some good work. It's a great thing that they donate that effort.

In the real world you pay for software support and updates on a regular basis. Successful organizations don't complain about that - they're happy for it. It provides them with new and better tools.

>Why throw away all
>their experience and start with KISS... which if you read Phil Karn's paper
>KISS was a kludge to begin with.

It's simple, it's universal and it works. The disadvantage of KISS in a TNC environment is usually overshadowed by many other system parameters. That applies even more so in the APRS network which is glowing example of what can be done using simple kludges.

Here's some packet stats from one of my systems what has been up just 70 days.
Add them up. That's close to two million packets. Not bad for using the kludge.
(No, this isn't APRS either...)

ax0 RX packets:730019 errors:0 dropped:0 overruns:0 frame:0
 TX packets:824784 errors:0 dropped:0 overruns:0 carrier:0

ax1 RX packets:285096 errors:0 dropped:0 overruns:0 frame:0
 TX packets:59894 errors:0 dropped:0 overruns:0 carrier:0

ax2 RX packets:0 errors:0 dropped:0 overruns:0 frame:0
 TX packets:59817 errors:0 dropped:0 overruns:0 carrier:0

Bottom line. We will have more and better software if we respect those
folks developing it. Either by respecting the GNU license or by paying
for what we use from folks in business.

>-Jeff

73,
Bill - WA7NWP

PS. To keep this at least a microBit on topic, the plain text nature of the
current

APRS feed is a good thing. Save the compressed binary transport for the next
generation where it can be part of a clean rewrite.

PPS. Another current example of involuntary software sharing. There are now two
commercial spinoffs of Byon's Tiny Trak using "shared" source and utilities.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Nov 11 18:56:21 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA18735
for <lyris.aprsspec@tapr.org>; Mon, 11 Nov 2002 18:56:20 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Mon, 11 Nov 2002 19:54:54 -0500
In-Reply-To: <LYR22299-106582-2002.11.11-14.31.54--
jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] Re: OT open source, was: How widely implemened is APRS
Compressed format?

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Jeff King <jeff@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-106618-2002.11.11-19.39.55--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA18735

Bill:

I'm confused. You suggest a open source project for the TNC2 or other TNC's might be a good thing, and now are slandering European packet radio organizations as well as apparently condemning the whole open source movement.

Could you have been trolling here?

No matter, I'll bite a little.

First, do we agree that Open source and theft are not the same thing? I'm not sure if you understand the difference. I do, and understanding this is fundamental to any discussion.

On Mon, 11 Nov 2002 11:47:59 -0800, Bill Vodall - WA7NWP wrote:

>Software 2000 wrote Netrom.

Yes, Software 2000 was a commercial company and the product was copyrighted. Source code was not released although I have found evidence of some sharing of ideas between Nordlink and software 2000.

>Some folks disassembled it.

That was stated. And based on what you said, Software 2000 had clear cause of action against NordLink and the individuals involved. Remember, Software 2000 did not make the product Open Source. Yet for whatever reason, Software 2000 chose not to take legal action, to the best of my knowledge.

Yet here you are, 10 years later, beating the same slander drum against

fellow amateurs. While it may or may not be true, I think the fact Software 2000 chose not to exercise its rights means third parties should not beat the slander drum 10 years later.

>Some folks in Arizona supported the released TheNet software for a
>while.

Jack Taylor n7oo. And your stating he is thief also?

>Then Dave, G8KBB, picked up on the TheNet code and supported it for
>a few years under the name X1...

And now we get to Dave, who I was referring to. So it is your opinion he is also a criminal?

And what about Marco Savegnago, the author of UI-Digi? APRS crook?

And how about the authors of NOS, who "stole" the netrom protocol (which apparently was copyrighted) and put it into NOS?

Bottom line, Software 2000 chose not to enforce it's rights under the law, and no evidence even exists of a tort letter being sent to Nordlink. At a minimum, this should have been done.

>Following this thread for some interesting discussion:

>

><http://www.mail-archive.com/linux-hams@vger.rutgers.edu/msg00393.html>

The above was from ~1999, memories getting fuzzy. Here are some from around the time it all happened (1990):

<http://groups.google.com/groups?selm=8906090737.AA00657%40ucbvax.Berkeley.EDU>

<http://www.cnunix.com/ftp/hamradio/thenet/thenet.flame>

<http://groups.google.com/groups?selm=719640550snx%40skyld.UUCP>

<http://groups.google.com/groups?selm=10857%40platypus.uofs.uofs.edu>

>>Software 2000 left the amateur scene year's ago...

>>Nordlink (of germany) is still involved and actually contributing
>>much.

>

>Which doesn't change the reason that Software 2000 left the amateur
>scene.

What is the reason they left? (facts please) You do understand the reason NordLink developed TheNet is that Software 2000 had stopped supporting its product? At worst, the effort may have hastened their withdraw but they where already on the way out.

>>I thought the whole idea of open source was to share?

>

>Some share more then others. Which is terrific if that's what one
>chooses to do. To have your efforts shared by others to your personal
>detriment is not a good thing.

No it is not. That is why there is a whole section of law called copyright, trademark and patents. Even a section of the U.S. government devoted to it.

Bill, I run a commercial company. I've also had designs and trademarks stolen. Often a simple threatening letter from my attorney stops it in its tracks. I'm not saying this is right, but by the same token, slandering someone in a public newsgroup is not right unless you are willing to go to the mat with them. Software 2000 chose to slander Nordlink on the newsgroups and at TAPR board meetings instead of doing it the right way. Regardless of the "truth" their methods tell me alot about the individuals.

>Notice the lack of software coming
>from both Paccomm and Kantronics? Maybe if there were less shared
>ROMS in digi's and TNC's out there we'd be seeing new and better
>software.

Again, you are confusing Open Source with theft. They are not the same thing. I'd suggest turning in some of those ROM thieves you know into Paccomm and Kantronics instead of using it as a argument against open source.

>Also read Steve's comment on why the source for Findu isn't open.
>It's down a couple paragraphs at <http://www.findu.com/>. He's right on!

In this country, anyone is free to flush their source code down a rathole if they so chose. Guess some of us are quite happy a fellow in Finland named Linus decided he didn't want to emulate this!

Maybe you should check this site out:

<http://www.aprsworld.net>

Put together originally by a high school student. He was so misguided he released it as open source. And for his punishment he was awarded a

scholarship to college by the IEEE.

<http://aprsworld.net/info/sponsors/>

Some capitalists do DO open source.

>Just because it's essentially free to copy (steal) software, doesn't
>make it cheap to development and support.

Again, your confusing thief and open source. Of course it is not cheap, but some people who write source code for fun want their efforts to live on after them. Often it doesn't, but sometimes it does. But it is their choice.

>In the real world you pay for software support and updates on a
>regular basis.
>Successful organizations don't complain about that - they're happy
>for it. It provides them with new and better tools.

I think I spent about \$5000 on software last year, close to \$15,000 so far this year. Your point?

>>Why throw away all
>>their experience and start with KISS... which if you read Phil
>>Karn's paper KISS was a kludge to begin with.
>
>It's simple, it's universal and it works.

It is also from 1985. KISS is decoupled from the radio environment. Phil even mentions this. If you browse some of those netrom thieves sites in Europe you'll discover they have gone on to do variants of KISS addressing this called SMACK and 6pack and further have developed something called DAMA (from the NordLink thieves).

>Here's some packet stats from one of my systems what has been up
>just 70 days.
>Add them up. That's close to two million packets. Not bad for
>using the kludge.
>(No, this isn't APRS either...)

It is NOS of course. I used checksum KISS on all my NOS nodes. Makes a big difference. Still, I don't understand your point. You blast two million packets in the air, and you say "not bad"? A better metric would be how much actually data got sent on those 2 million packets.

>Bottom line. We will have more and better software if we respect
>those folks developing it. Either by respecting the GNU license or by
>paying for what we use from folks in business.

Of course. The people you are slamming long long ago left the scene so isn't
it time to move on?

>PS. To keep this at least a microBit on topic, the plain text nature of the
>current APRS feed is a good thing.

In 1985 or 1990 it might have been. Today it is just plain inefficient and
what we have is not well suited for small microcontrollers.

>Save the compressed binary transport
>for the next generation where it can be part of a clean rewrite.

I wouldn't discourage anyone from doing this. APRS works on the principle
that you do something and then it gets implemented in the spec. If someone
wants to do a binary compressed format for ham AVL, I'd highly encourage it
as the spec does not move fast enough (and that is a whole other topic of
discussion).

>PPS. Another current example of involuntary software sharing.
>There are now two
>commercial spinoffs of Byon's Tiny Trak using "shared" source and
>utilities.

??

Again, there is a difference between theft and open source. Byon, as best I
can tell, released too much and didn't protect himself well enough. I'm sure
he has learned from this, but don't try and confuse the issues. The TinyTrak2
is a commercial product, not open source.

-Jeff

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Nov 14 21:20:11 2002

Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id VAA25701
for <lyris.aprsspec@tappr.org>; Thu, 14 Nov 2002 21:20:11 -0600 (CST)
Message-ID: <LYR11589-107030-2002.11.14-22.03.56--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Allen D. Alter" <n2radio@triton.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] APRSPLUS
Date: Thu, 14 Nov 2002 22:21:46 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Allen D. Alter" <n2radio@triton.net>
X-Message-Id: <000e01c28c56\$21923020\$24a141d8@triton.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I am having problems with entering Lat/Lon. I converted to
dec. I still end up in someplace 1000 or more miles away

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sun Nov 24 16:40:21 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id QAA03572
for <lyris.aprsspec@tappr.org>; Sun, 24 Nov 2002 16:40:21 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "TAPR Board of Directors" <tappr-board@lists.tappr.org>
Subject: [aprsspec] TAPR List Sponsorship
Date: Mon, 25 Nov 2002 09:37:40 +1100
Message-ID: <LYR11589-108440-2002.11.24-17.23.58--
lyris.aprsspec#tappr.org@lists.tappr.org>

MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-Scanner: exiscan *18G5PL-0007uL-00*1s0eoG11nj.* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <00ed01c2940a\$1b9aaa60\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day All

Thank you for reading this message. TAPR provides this mailing list along with others as a service to their members and the Ham Radio community in general. Providing this service and other services such as our FTP site and the cost of developing new products like the Pic-E and EasyTrak, costs money.

We are more than happy to provide these resources to the entire Ham Radio community, but we do ask that you do consider joining TAPR. A good way to see what we're up to is to take a look at the latest issue of our quarterly journal, the _Packet_Status_Register_ which is available for download at
<http://www.tapr.org/PSR>

Membership in TAPR is only US\$20 regardless of whether you live in Tuscon, Arizona, or Sydney, Australia. If you want to join, or if your membership is coming up for renewal, please visit www.tapr.org on the Web for details. Specifically you can go to the following page for information

<http://www.tapr.org/tapr/html/Fmembership.html>

Darryl Smith, VK2TDS
TAPR Board Member

P.S. I have recently joined the board as its first non-North American board member. As part of my Board duties, I have agreed to have overall responsibility for membership. If anyone has any questions or concerns about membership or TAPR in general, please EMAIL me. I can also be

contacted by phone with prior arrangement

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
vk2tds@tapr.org | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 4 00:07:43 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA26484
for <lyris.aprsspec@tapr.org>; Wed, 4 Dec 2002 00:07:43 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "TAPR Board of Directors" <tapr-board@lists.tapr.org>,
"TAPR APRS Special Interest Group" <aprssig@lists.tapr.org>,
"htaprs digest recipients" <htaprs@lists.tapr.org>,
"aprs sig \"(aprs sig)\" <aprssig@tapr.org>,
"APRS Spec Discussion List" <aprsspec@lists.tapr.org>,
"TAPR PIC Development Special Interest Group" <picsig@lists.tapr.org>,
"TAPR Spread Spectrum Special Interest Group" <ss@lists.tapr.org>,
"TAPR AO-16 APRS Special Interest Group" <ao16aprs@lists.tapr.org>
Subject: [aprsspec] Authors Wanted for PSR and DCC...
Date: Wed, 4 Dec 2002 17:05:40 +1100
Message-ID: <LYR11589-109540-2002.12.04-00.51.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Scanner: exiscan *18JSfw-0000W5-00*FlZSUxm0Ikw* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <008801c29b5b\$2f294c00\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day

TAPR have decided to introduce some changes to support those members of TAPR who are putting time and energy into the various publications that TAPR puts out each year.

Three Month Membership Extension for Packet Status Register (PSR)
Articles

--

>From the next issue of PSR, members who have articles published in the PSR magazine will have their membership of TAPR extended by three months. It is hoped that this will encourage members to write for the magazine. The deadline for articles for the next issue of PSR is mid-January. More information on submitting articles, and on obtaining copies of the magazine can be found on <http://www.tapr.org/tapr/html/Fpsr.html>

Six Month Membership Extension for Digital Communications Conference (DCC) Articles

>From the 2003 DCC, planned for somewhere in the Eastern USA, TAPR will be offering Six Month membership extensions for all members who have papers published in the proceedings. Whilst we would dearly love all authors of papers to attend the conference, we recognize that there are reasons that members cannot attend the conference - so the requirement is only on having your paper published. This is of course in addition to the complimentary copy of the DCC proceedings that each author is entitled to.

We are looking for papers on subject within the bounds of Digital Communications, as it applies to Ham Radio, on all levels. All you need is something to say. If you feel that you are unable to write a paper because you do not have the time, or writing a paper is outside your area of expertise, please contact me. I will attempt to find someone who will be able to help you with getting the paper written.

More details on the conference itself will be made available early in 2003, along with a formal call for papers. Until then you can examine the DCC area of the TAPR www site for details on past conferences by looking at <http://www.tapr.org/dcc/>

Darryl VK2TDS
TAPR Board Member

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 10 07:46:01 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA28296
for <lyris.aprsspec@tapr.org>; Tue, 10 Dec 2002 07:46:00 -0600 (CST)
Date: Tue, 10 Dec 2002 08:45:23 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>,
<aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] 16 bit (and larger) Telemetry
In-Reply-To: <LYR20817-110321-2002.12.10-02.51.27--
bruninga@usna.edu@lists.tapr.org>
Message-ID: <LYR11589-110346-2002.12.10-08.30.38--
lyris.aprsspec@tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0212100842490.7543-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Looks perfect to me!
Bob

On Tue, 10 Dec 2002, Steve Dimse wrote:

> I'm involved in an APRS project that requires telemetry with greater
> precision than the 8 bits provided for in the APRS spec. This data will
> be transmitted using the "user defined" part of the spec.... I propose
> using the character T (telemetry) for the user character, and H and D
> (hex and decimal) for the format character.
> Examples:
>
> }TH243,AE,4F2,,12,0,FF
> }TD134.2,42,0,-23.3,0,
>
> As a teaser, I'll show an example of a prototype of a new telemetry cgi.
> This uses the Ploticus plotting package

> (<http://ploticus.sourceforge.net>)...a very powerful program with its own
> complex scripting language, but this prototype uses one of their
> "prefab" scripts, chron, which plots time on the x axis. It is limited
> to plotting a single line, obviously not good enough, I'll have to learn
> the scripting language, but this hints at what can be done:
>
> <http://www.findu.com/cgi-bin/tele1.cgi?call=k9d9&last=72¶m=1>
> <http://www.findu.com/cgi-bin/tele1.cgi?call=kj7az-6&last=72¶m=2>
>
> (param is which of the tele values to plot, in addition 0 is the transmitted
> sequence number, while -1 is the received sequence number).
>
> The final tele cgi will work on the original 8 bit format and either of
> the new ones automatically (i.e. it will sense the datatype and do
> conversions automatically, no need to specify the format).
>
> Comments encouraged! (and can someone post this on the aprsspec group,
> I'm not subscribed!)
>
> Steve K4HG
k

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Dec 10 13:32:45 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA15402
for <lyris.aprsspec@tapr.org>; Tue, 10 Dec 2002 13:32:40 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Tue, 10 Dec 2002 14:31:43 -0500
In-Reply-To: <LYR18229-110373-2002.12.10-13.22.11--
jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] Re: 16 bit (and larger) Telemetry
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Jeff King <jeff@aerodata.net>
Sender: bounce-aprsspec-11589@lists.tapr.org

Message-Id: <LYR11589-110388-2002.12.10-14.17.18--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA15402

--- Original Message ---

From: "Jeff King" <jeff@aerodata.net>
To: TAPR APRS Special Interest Group <aprssig@lists.tapr.org>
Cc:
Sent: Tue, 10 Dec 2002 13:36:22 -0500
Subject: [aprssig] Re: 16 bit (and larger) Telemetry

>No comment other then I wouldn't go out of your way not to break the
>APRS
>spec (you said something about being in the user defined field,
>implying that
>you had to carry some payload you don't need). If you review the
>requests to
>the APRSSPEC over the years, you'll see a telemetry format was tops
>among
>them.
>
>Normally wouldn't suggest this to anyone, but your in a position to
>drive the
>spec/avoid the kludge and since you have a personal need, might as
>well kill
>two birds with one stone.
>
>However you chose to do it, good luck. I'm sure it will be useful.
>
>Jeff
>
>--
>Jeff King, jeff@aerodata.net on 12/10/2002
>
>
>On Tue, 10 Dec 2002 03:06:14 -0500, Steve Dimse wrote:
>>I'm involved in an APRS project that requires telemetry with greater
>>precision
>>than the 8 bits provided for in the APRS spec. This data will be
>>transmitted
>>using the "user defined" part of the spec. Rather than develop a
>>format specific
>>to this application, I am going to make it as general as I can, so
>>that the

>>findU tools I am writing to manipulate the data can be used by other
>>applications (thereby hopefully avoiding some requests for special
>>user-defined
>>formats).
>>
>>I'm bringing this up here because I'm open to suggestions, at least
>>up until the
>>first remote device is deployed. If you have ideas that would make
>>this more
>>uesful, please share them.
>>
>>The basic plan is for two different packets, one with positive hex
>>integers, the
>>other with base 10 numbers (which may be signed or unsigned, integer
>>or floating
>>point).
>>
>>The reason for two formats is that hex is easier for embedded
>>devices to encode
>>than decimal, and can also save a few bytes on ech packet, depending
>>on the
>>number and size of the values. However, it is hard to do negatives
>>in hex(when
>>there is not a set bit-length of the number...is FF a 16 bit 255 or
>>an 8 bit
>>-1?) and damn near impossible to do efficient, cross-platform
>>floating point.
>>
>>There is no official limit on the number of values in the packet
>>(there are
>>practical issues, but the format, and my code do not set the
>>limits), fields are
>>comma delimited, datapoints without values are represented by a true
>>empty field
>>(two consecutive commas or comma at the end of a line). I propose
>>using the
>>character T (telemetry) for the user character, and H and D (hex and
>>decimal)
>>for the format character.
>>
>>Note there is no timestamp or sequence number in this spec. An
>>individual user
>>is free to designate one of the fields for that function, but there
>>is no wasted
>>space for those who don't need it.
>>
>>Examples:
>>

```
>> }TH243,AE,4F2,,12,0,FF
>>
>> }TD134.2,42,0,-23.3,0,
>>
>> Again, this is under the user-defined part of the spec, so it is not
>> a matter
>> for the APRS WG (other than allocated the specific format
>> characters). If you
>> have a need not met by whatever we end up using, you can create at
>> different
>> format to meet your needs. As I say, I'm bringing this up now
>> because I would
>> like to have the spec and tools as general purpose as possible.
>>
>> As a teaser, I'll show an example of a prototype of a new telemetry
>> cgi. This
>> uses the Ploticus plotting package
>> (http://ploticus.sourceforge.net)...a very
>> powerful program with its own complex scripting language, but this
>> prototype
>> uses one of their "prefab" scripts, chron, which plots time on the x
>> axis. It is
>> limited to plotting a single line, obviously not good enough, I'll
>> have to learn
>> the scripting language, but this hints at what can be done:
>>
>> http://www.findu.com/cgi-bin/tele1.cgi?call=k9d9&last=72&param=1
>> http://www.findu.com/cgi-bin/tele1.cgi?call=kj7az-6&last=72&param=2
>>
>> (param is which of the tele values to plot, in addition 0 is the
>> transmitted
>> sequence number, while -1 is the received sequence number).
>>
>> The final tele cgi will work on the original 8 bit format and either
>> of the new
>> ones automatically (i.e. it will sense the datatype and do
>> conversions
>> automatically, no need to specify the format).
>>
>> Comments encouraged! (and can someone post this on the aprsspec
>> group, I'm not
>> subscribed!)
>>
>>
>> Steve K4HG
>>
>> ---
>> You are currently subscribed to aprssig as: jeff@aerodata.net
```

>>To unsubscribe send a blank email to leave-aprssid-
>>18229V@lists.tapr.org
>>Questions regarding the SIG go to the SIG administrator:
>>wallou@tapr.org
>
>
>
>
>
>---
>You are currently subscribed to aprssid as: jeff@aerodata.net
>To unsubscribe send a blank email to leave-aprssid-
>18229V@lists.tapr.org
>Questions regarding the SIG go to the SIG administrator:
>wallou@tapr.org

You are currently subscribed to aprssid as: lyris.aprssid@tapr.org
To unsubscribe send a blank email to leave-aprssid-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From admin@adverttiger.com Sun Dec 15 14:58:15 2002
Received: from linux.local ([213.9.245.142])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA03849
for <lyris.aprssid@tapr.org>; Sun, 15 Dec 2002 14:58:13 -0600 (CST)
Message-Id: <200212152058.OAA03849@tapr.org>
Received: (qmail 20252 invoked from network); 15 Dec 2002 22:00:15 -0000
Received: from unknown (HELO admin) (192.168.0.1)
by linux.local with SMTP; 15 Dec 2002 22:00:15 -0000
From: "Admin" <admin@adverttiger.com>
Subject: Discounted Cigs
To: lyris.aprssid@tapr.org
Sender: Admin <admin@adverttiger.com>
Reply-To: admin@adverttiger.com
Date: Sun, 15 Dec 2002 21:58:07 +0100
X-Priority: 3
X-Library: Indy 8.0.25

Dear Sir or Madam

If you are a smoker in the UK, or in the ROI, then we have something for you.

You are probably fed up with paying high prices for your cigarettes and tobacco.
Take a look at what we can do for you at
<http://www.advertiger.com/bs/?E=b082ba8260f6eb4e891a3e2b03ffc961>

We can send you, legally, by registered air mail, direct to your door, 4 cartons of cigarettes or 30 fifty gram pouches of rolling tobacco (all brands are available) from only 170 Euros - about 105 pounds - fully inclusive of postage and packing. Why pay more?

If you would rather not hear from us any more, this link will ensure that you are not bothered again.
<http://www.advertiger.com/bs/off.php?E=b082ba8260f6eb4e891a3e2b03ffc961>

Yours faithfully.
British Smokers

<http://www.advertiger.com/bs/?E=b082ba8260f6eb4e891a3e2b03ffc961>

w2yy987335ald

From bounce-aprsspec-11589@lists.tappr.org Wed Dec 18 03:04:45 2002
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA20528
for <lyris.aprsspec@tappr.org>; Wed, 18 Dec 2002 03:04:43 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] APRS Spec
Date: Wed, 18 Dec 2002 20:03:54 +1100
Message-ID: <LYR11589-111468-2002.12.18-03.49.47--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Scanner: exiscan *180a7U-00007v-00*M80qKZIxMz2* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <045a01c2a674\$677170a0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Minor Typo on Page 94 of the APRS Spec... Under Appendix 1 - APRS Data formats.

The table for AX-25 UI-Frame format lists the FLAG at the end of the packet being 2 bytes long. The correct number is 1, and it may be shared with the next packet

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Dec 18 12:37:56 2002
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id MAA09014
for <lyris.aprsspec@tapr.org>; Wed, 18 Dec 2002 12:37:52 -0600 (CST)
Date: Wed, 18 Dec 2002 13:36:02 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] APRS TOCALL Version Numbers
Message-ID: <LYR11589-111535-2002.12.18-13.22.31--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0212181335410.7126-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I am proposing to add APVxxx for IRLP, ILINK, ECHOLINK and any othe Voice

over IP system if it needs to send out a node STATUS packet to its users.

APVRxx is for IRLP

APVLxx is for I-LINK

APVExx is for ECHO link

Here is the current list of APRS T0calls and Version nomenclature that I have updated. Previous one was Sept 2002.

APA A-Filter, Alinco, etc

APAFxx AFilter.

APAGxx AGATE

APAXxx AFilterX.

APAHxx AHub

APB Rabbit TCPIP microprocessors

APC Windows CE, etc

APCYxx Cybiko applications

APD APRSd, etc

APDTxx APRStouch Tone (DTMF)

APE avail

APF avail

APG Gates, etc

APH HamHud, etc

API Icom, etc

APICQx for ICQ

APJ JavaAPRS,JeAPRS,etc

APJAx JavAPRS

APJEx JeAPRS

APK Kenwood, etc

APK0xx THD7's

APK1xx D700's

APL Liunx applications

APM MacAPRS, etc

APN Network nodes, digis, etc

APN3xx Kantronics KPC-3 rom versions

APN9xx Kantronics KPC-9612 Roms

APNAxx WB6ZSU's APRServe

APNMxx MJF TNC roms

APNPxx Paccom TNC roms

APNDxx DIGI_NED

APNUxx UIdigi

APO APRSpoint

APP pocketAPRS, etc

APQ avail

APR APR8xx APRSdos,etc

APRDxx APRSdata, APRSdr

APRKxx APRStk

APRS Generic, (obsolete. Digis should use APNxxx instead)

APRXxx APRSmax

APRTLm used my MIM's and Mic-lites, etc
APRSTx APRStt (Touch tone)
APS APRS+SA, etc
APT TinyTrack
APTTxx Tiny Track
APT2xx Tiny Track II
APTAXx K4ATM's tiny track
APTWxx Byons WXTrac
APTV for ATV/APRN and SSTV applications
APU UView, etc
APU1xx UView 16 bit applications
APU2xx UView 32 bit apps
APU3xx UView terminal program
APV Voice over Internet applications
APVRxx is for IRLP
APVLxx is for I-LINK
APVExx is for ECHO link
APW WinAPRS, etc
APX Xaprs, Xastir, etc
APY etc, Yeasu, etc
APZ Experimental
APZ0xx Xastir (old versions. See APX)
APZPAD Smart Palm

Authors with similar alphabetic requirements are encouraged to share their address space with other software. Work out agreements amongst yourselves and keep me informed.

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Jan 3 07:55:37 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id HAA22811
for <lyris.aprsspec@tapr.org>; Fri, 3 Jan 2003 07:55:35 -0600 (CST)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Fri, 03 Jan 2003 08:52:25 -0500
Subject: [aprsspec] Get Published and Extend Your TAPR Membership!
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-113442-2003.01.03-08.40.29--
lyris.aprsspec@tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <BA3AFFC9.AD7F%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

TAPR members:

The editorial board of Packet Status Register (PSR, the quarterly Newsletter of TAPR) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

As a bonus, if your contribution is published in PSR, your TAPR membership will be extended by 3 months.

E-mail your contributions to wallou@tapr.org ASAP because the deadline for the next issue of the newsletter is January 26.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Jan 4 03:24:01 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id DAA24177
for <lyris.aprsspec@tappr.org>; Sat, 4 Jan 2003 03:24:00 -0600 (CST)
From: "Ciemon Dunville G0TRT" <g0trtlists@businessunmetered.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] New member of the list
Date: Sat, 4 Jan 2003 09:22:46 -0000
Message-ID: <LYR11589-113576-2003.01.04-04.09.57--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ciemon Dunville G0TRT" <g0trtlists@businessunmetered.com>
X-Message-Id: <002401c2b3d2\$e0569570\$7ed0a4c2@armoury>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id DAA24177

Hi all,

I've just joined the list... Ciemon (pronounced Simon) Dunville G0TRT; aged 35; living near Ipswich in the UK; licensed for 12 years; using APRS for around 8 years; programming experience limited to a bit of C and Smalltalk.

So why have I joined the list? Well after so many years of taking, I thought I'd try and give.

Almost 2 years ago now the first APRS spec was released, after a lot of hard work. As time moves on and software is developed, maybe the protocol could do with updating too. So I'm offering my services to help in whatever way/shape/form I can. Be it writing any revisions to mediating any heated debates that will inevitably occur if the spec is revamped.

So what are your thoughts?

73.. Ciemon G0TRT

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Jan 11 03:46:59 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id DAA08846
for <lyris.aprsspec@tapr.org>; Sat, 11 Jan 2003 03:46:50 -0600 (CST)
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] How to set the server filter at logon.
Date: Sat, 11 Jan 2003 10:48:55 +0100
Message-ID: <LYR11589-114562-2003.01.11-04.33.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-MIME-Autoconverted: from 8bit to quoted-printable by bart.vegasys.net id
h0B9iqUb008907
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <FLEFLCKKDFDPHKNHJPEBAEPDENAA.roger.bille@telia.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id DAA08846

Dear developer,

The attached message was sent today to a few lists. There are 2 other methods to set the filter which are more target for you as developer if you want to enable the possibility to have a field in your applications where the users can enter their default filter definition and that is the passed to the server during connection/logon. They will then not need to send an APRS message initially. Of course can they send a message to change the

filter at a later time.

Method #1

The server logon string is checked for a filter keyword and anything after that is treated as a filter definition. The filter keyword must be the 8th argument. For example:

```
user SM5NRK pass 12345 vers Test 1.0 filter r/63/16/1000 t/wn
```

Method #2

The filter definition can also be sent in a comment line between the client and the server. The comment line must start with #. For example:

```
user SM5NRK pass 12345 vers Test 1.0  
# filter r/63/16/1000 t/wn
```

73 de sm5nrk/Roger

=====

Dear all,

Introduction:

The APRS-IS full feed today has a lot of traffic and requires a high bandwidth, in particular for the APRS-IS server sites, but also for some of you that connect that are only interested in the particular traffic. To accommodate this a number of servers have special regional feeds which filter the traffic. There are also some weather specific feeds available. But all these are setup according to what the server operator "thinks" will be good for the users. Now we can take this one step further.

Now will each of you be able to select what traffic you are interested in and the server will create a unique feed for you. There is great flexibility to construct your personal feed.

How does it work?

Pete Loveall AE5PL has written the APRS-IS server software `javAPRSSrvr` in java which is used by a number of servers. Pete has been kind to create some hooks into his server software so I have been able to write a filter add-on, `javAPRSFilter` (also in java). These 2 applications work together to provide this filtering. Status on the APRS-IS servers can be found here:
http://ahubswe.net/aprs_stat.asp

You define the filter by doing the following:

1. Connect and logon to a filter enabled port on a server
2. Send an APRS message to the server requesting the filter you want

Filter commands

There are 4 different kinds of filters that can be used in any combination. Each filter is working independent and is additive to the feed. This mean if the filter finds a match it will be passed to you. The filter commands in the APRS message to the servers call is starting with the word 'filter' (without quotes) and each filter command is delimited by a single space. A message with just 'filter?' (without quotes) will return the current filter definition.

#1 Range filter

The range filter will pass all stations and their beacons, status, messages etc within a distance from a set location. It will also pass messages to stations within the filter and positions of the message sender even if they are outside the range. Up to 3 range filters can be used at the same time to extend the areas when you have problem to find a good circle match.

Syntax: r/lat/lon/dist [r/lat1/lon2/dist2 [[r/lat2/lon2/dist2]]

Where: r = range command

lat = latitude in degrees (no decimals). Negative for south

lon = longitude in degrees (no decimals). Negative for west

dist = distance in kilometers from lat/lon.

I'm sorry we don't use miles here in Sweden ;-)

Samples: r/55/-4/600 This will pass all traffic for UK
r/37/-81/1500 This will pass all east cost US traffic

#2 Prefix filter

The prefix filter will pass traffic based on if the sender's call starts with a specific pattern. Up to 10 patterns can be defined at the same time.

Syntax: p/p1/p2/p3... (up to 10)

Where: p = prefix command

p# = The prefix (starting) pattern

Samples: p/K This will pass all traffic from stations starting with K
p/SK/F This will pass stations starting with either SK or F
p/SM5NRK This will pass all traffic from SM5NRK and any SSID at the end

#3 Budlist filter

The budlist filter will pass traffic based on exact match of the sender's call. Also the SSID is part of the exact match. If you want all SSID use prefix filter above. Up to 10 calls can be defined at the same time (if they can fit in a single APRS message).

Syntax: b/call1/call2/call3... (up to 10)

Where: b = budlist command
call# = The prefix (starting) pattern

Samples: b/SM5NRK This will pass all traffic from SM5NRK without any SSID
b/SM5NRK-5/SK5UM This will pass all traffic from SM5NRK-5 and SK5UM

#4 Type filter

The type filter will pass traffic depending on the packet type. More than one type can be defined in one single command.

Syntax: t/type

Where: t = type command
type = is one or more of the following letters
p = Position packets
o = Objects
i = Items
m = Message
n = NWS Weather
w = Weather
t = Telemetry
q = Query
s = Status
u = User-defined

Samples: t/p This will pass all traffic with a position
t/w This will pass all weather traffic. For positionless weather objects the corresponding position packet will also be sent when it is next heard
t/mos This will pass all messages, objects and status traffic

Remember that the APRS message must start with the word filter and the the commands.

The above filters can be combined as explain above. Each filter will however working independent of the others, for example:

filter r/63/16/1000 r/55/-4/600 p/F b/AE5PL t/s

The above filter will pass all traffic within Nordic (range#1) AND UK (range#2) AND stations starting with F (prefix) AND from AE5PL (budlist) AND all status traffic (type).

Where to connect?

This is up to each server operator if/when they will provide this type of service. The following servers and ports have this enabled as far as I know.

ahubswe.net:14580
aprsca.net:14580
aprseast.net:14580
aprswest.net:14580

I welcome any comments, suggestions and complains. I monitor the UI-View and APRSSIG lists.

73 and have fun
Roger Bille/SM5NRK

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sun Jan 19 18:58:11 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA14595
for <lyris.aprsspec@tapr.org>; Sun, 19 Jan 2003 18:58:09 -0600 (CST)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Sun, 19 Jan 2003 19:54:53 -0500
Subject: [aprsspec] PSR deadline coming soon!
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-116143-2003.01.19-19.43.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>

Reply-To: Stan Horzempa <stanzepa@earthlink.net>
X-Message-Id: <BA50B30D.B6E4%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Just a reminder: If you are interested in submitting an article for TAPR's newsletter, Packet Status Register, the deadline is the 26th, so send me your input ASAP.

73,

Stan, WA1LOU, PSR Editor

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 23 18:47:38 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA15940
for <lyris.aprsspec@tapr.org>; Thu, 23 Jan 2003 18:47:34 -0600 (CST)
Message-ID: <LYR11589-116875-2003.01.23-19.34.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Thu, 23 Jan 2003 19:44:26 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
CC: APRS Spec eMail Remailer <aprsspec@lists.tapr.org>
Subject: [aprsspec] SCC Proposal [was:Symbols/Icons was something else]
References: <LYR27060-116801-2003.01.23-10.05.03--w2ev#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E308C69.65B4DF14@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

--- Excerpted from the APRS101.pdf file -----

APRS Data Extensions: a fixed-length 7-byte field may follow APRS position data. This field is an APRS Data Extension. The extension may be....:

PHGphgd Station Power and Effective Antenna Height/Gain/Directivity

Power, Effective Antenna Height/Gain Directivity	The 7-byet PHGphdg Data Extension specifies the transmitter power, effective antenna height-above-average-terrain, antenna gain and antenna directivity. APRS uses this information to plot radio range circles around stations.
---	--

The 7 characters of this Data Extension are encoded as follows:

Characters 1-3 PHG (fixed)	
Character 4	p Power code
Character 5	h Height code
Character 6	g Antenna gain code
Character 7	d Directivity code

Example of the PHG Data Extension: PHG5132 (reference a table that is included in the spec)

Another example: =4903.50N/07201.75W#PHG5132

Modify the Protocol Spec to add a new Data Extension parameter called SCC (Station Configuration Code). It is defined as:

- o Starts with the sequence: "SCC" and is at least 6-bytes long
- o Ends with either a " " or by virtue of being at the end of the frame
- o There is no limit to how long this field can be
- o This is a variable length field...not requiring that all stations fill-in all values.

SCC parameters include (in order of decreasing ability for the operator to provide accurate information):

- o 2-byte designation of frequency of operation
- o 1-byte Network Personality designation
- o 1-byte Power designation
- o 1-byte Antenna Gain designation
- o 1-byte Antenna Pointing Vector designation
- o 1-byte Antenna Height (Above Mean Sea Level) designation
- o 1-byte Antenna Height (estimated Height Above Average Terrain) designation

Empiracally: SSCbsnpgvmt

Examples of valid SCC's (with "real values" included):

SCCVK1NLAKP
 SCCVK1NLAK
 SCCVK1NLA
 SCCVK1NL
 SCCVK1N
 SCCVK1

Below are examples of the first two variables (2-byte frequency designation and 1-byte Network Personality designation). I have ideas on the others, too...but this is alot of information for folks to digest...so I'll stop there):

SCC = Field-flag

=== 2-byte designation of frequency of operation ===

b->	(X)tra	(L)ow	(M)ed.	(H)igh	(V)ery	(U)ltra	(S)uper	(E)xtr
s	Low			High	High	High	High	High
v								
0	3-kHz	30-kHz	300-kHz	3-MHz	30-MHz	300-MHz	3-GHz	30-GHz
A	4-kHz	40-kHz	400-kHz	4-MHz	40-MHz	400-MHz	4-GHz	40-GHz
B	5-kHz	50-kHz	500-kHz	5-MHz	50-MHz	500-MHz	5-GHz	50-GHz
C	6-kHz	60-kHz	600-kHz	6-MHz	60-MHz	600-MHz	6-GHz	60-GHz
D	7-kHz	70-kHz	700-kHz	7-MHz	70-MHz	700-MHz	7-GHz	70-GHz
E	8-kHz	80-kHz	800-kHz	8-MHz	80-MHz	800-MHz	8-GHz	80-GHz
F	9-kHz	90-kHz	900-kHz	9-MHz	90-MHz	900-MHz	9-GHz	90-GHz
G	10-kHz	100-kHz	1-MHz	10-MHz	100-MHz	1-GHz	10-GHz	100-GHz
H	11-kHz	110-kHz	1.1-MHz	11-MHz	110-MHz	1.1-GHz	11-GHz	110-GHz
I	12-kHz	120-kHz	1.2-MHz	12-MHz	120-MHz	1.2-GHz	12-GHz	120-GHz
J	13-kHz	130-kHz	1.3-MHz	13-MHz	130-MHz	1.3-GHz	13-GHz	130-GHz
K	14-kHz	140-kHz	1.4-MHz	14-MHz	140-MHz	1.4-GHz	14-GHz	140-GHz
L	15-kHz	150-kHz	1.5-MHz	15-MHz	150-MHz	1.5-GHz	15-GHz	150-GHz
M	16-kHz	160-kHz	1.6-MHz	16-MHz	160-MHz	1.6-GHz	16-GHz	160-GHz
N	17-kHz	170-kHz	1.7-MHz	17-MHz	170-MHz	1.7-GHz	17-GHz	170-GHz
O	18-kHz	180-kHz	1.8-MHz	18-MHz	180-MHz	1.8-GHz	18-GHz	180-GHz
P	19-kHz	190-kHz	1.9-MHz	19-MHz	190-MHz	1.9-GHz	19-GHz	190-GHz
Q	20-kHz	200-kHz	2.0-MHz	20-MHz	200-MHz	2.0-GHz	20-GHz	200-GHz
R	21-kHz	210-kHz	2.1-MHz	21-MHz	210-MHz	2.1-GHz	21-GHz	210-GHz
S	22-kHz	220-kHz	2.2-MHz	22-MHz	220-MHz	2.2-GHz	22-GHz	220-GHz
T	23-kHz	230-kHz	2.3-MHz	23-MHz	230-MHz	2.3-GHz	23-GHz	230-GHz
U	24-kHz	240-kHz	2.4-MHz	24-MHz	240-MHz	2.4-GHz	24-GHz	240-GHz
V	25-kHz	250-kHz	2.5-MHz	25-MHz	250-MHz	2.5-GHz	25-GHz	250-GHz
W	26-kHz	260-kHz	2.6-MHz	26-MHz	260-MHz	2.6-GHz	26-GHz	260-GHz
X	27-kHz	270-kHz	2.7-MHz	27-MHz	270-MHz	2.7-GHz	27-GHz	270-GHz
Y	28-kHz	280-kHz	2.8-MHz	28-MHz	280-MHz	2.8-GHz	28-GHz	280-GHz
Z	29-kHz	290-kHz	2.9-MHz	29-MHz	290-MHz	2.9-GHz	29-GHz	290-GHz

Network Personality (n)

A 1-byte (Base36 representation of a binary value) calculated as:

Digipeater (WIDEn-N)	00000#
Digipeater (TRACEn-N)	0000#0
Weather Station	000#00
Internet Gateway	00#000
RF Gateway	0#0000
Backbone Router	#00000

Binary Sum & display as a 1-byte Base(36) value

Example: Widen-N digi, WX station and IGate

000001
000100
001000

001101 = 13 decimal, "D", BASE(36)

Wow! This information can be embedded right into the frame by having client-side software include fields that the operator fills out...and does the encoding for them. On the RX-side...client-side software can easily parse out this information and offer users a wide range of options in displaying stations on their map.

Do you want to know all of the stations capable of IGating? Easy! The best part is that it doesn't matter what the display icon is!

Lastly...even if you don't agree with this proposal, you are to be saluted for reading through it and considering it.

Kind Regards,
Ev Tupis, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Jan 28 01:58:39 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA29837
for <lyris.aprsspec@tapr.org>; Tue, 28 Jan 2003 01:58:38 -0600 (CST)
From: "Ciemon Dunville G0TRT" <hamlists@g0trt.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Updating the spec - RFI
Date: Tue, 28 Jan 2003 07:56:48 -0000
Message-ID: <LYR11589-117630-2003.01.28-02.45.03--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
In-Reply-To: <LYR31591-113576-2003.01.04-04.09.57--
g0trtlists#businessunmetered.com@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Ciemon Dunville G0TRT" <hamlists@g0trt.com>
X-Message-Id: <007301c2c6a2\$d32e8c80\$0300a8c0@armoury>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id BAA29837

Hi all,

Well I offered my services and only a couple replied off list, so in an attempt to get the ball rolling...

If you're an APRS software author could I ask you to send the following please:

1. Name and callsign.
2. Software under development and OS.
3. If you are willing/have the time/inclination to participate in APRS spec development.
4. Any limitations.

Short replies preferred please to get things rolling.

Oh, and if you're an author and can't for whatever reason participate, could you please acknowledge this message so that we're all aware of your stance as the spec is developed.

Thank you

Ciemon G0TRT

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 00:01:10 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA28922
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 00:00:59 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: aprsspec digest: January 28, 2003
Date: Wed, 29 Jan 2003 17:00:09 +1100
Message-ID: <LYR11589-117829-2003.01.29-00.47.57--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <LYR11660-117818-2003.01.29-00.00.14--darryl@radio-active.net.au>
Importance: Normal
X-Scanner: exiscan *18dlGo-0005VR-00*1Tpya0YKj1U* on Astaro Security Linux
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <002101c2c75b\$b0c38470\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

You asked for it...

Darryl Smith, VK2TDS

1. AntiTracker Basic
www.radio-active.net.au/web/tracking/antitracker.html

PIC based, uploads positions in NMEA format (receive only)

Decodes Positions only. Does not decode COMPRESSED (does do
MIC-E)
Decodes above packets when sent in third party format from an
igate
Beta Testing
CCS C

2. AntiTracker Pro

PIC Based, uploads in GARMIN binary format to a GPS
Will soon decode icons in addition to above
Beta Testing
CCS C

3. OziAPRS <http://radio-active.net.au/web/gpsaprs/oziaprs.html>

Receive only APRS for OziExplorer.
Windows Based
Interface in VB
APRS Decoding based on libaprs2 by Max (mxd@wilder.net)
Will have server built in eventually.
Alpha Testing

4. BroadcastAPRS

Receive only APRS designed for doing live webcasts of events
Designed so that any size icons will work, and it will always
look good
Will have autotrack
Will soon be integrated with libaprs2
VB
Totally Unreleased.
Basically designed for my consultancy business where I have the
need to do the occasional webcast when I do tracking.

5. gAPRS

APRS server for GPRS, or other link layer on the internet where
the IP address changes constantly
Translates IMEI number into a callsign, and converts NMEA string
into an APRS string
Designed for the WMCS M110 GPRS/GPS tracking unit

Am I prepared to work on spec development. Yes.

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

-----Original Message-----

From: bounce-aprsspec-11660@lists.tapir.org
[mailto:bounce-aprsspec-11660@lists.tapir.org] On Behalf Of APRS Spec
Discussion List digest
Sent: Wednesday, 29 January 2003 4:00 PM
To: aprsspec digest recipients
Subject: aprsspec digest: January 28, 2003

APRS Spec Discussion List Digest for Tuesday, January 28, 2003.

1. Updating the spec - RFI

Subject: Updating the spec - RFI
From: "Ciemon Dunville G0TRT" <hamlists@g0trt.com>
Date: Tue, 28 Jan 2003 07:56:48 -0000
X-Message-Number: 1

Hi all,

Well I offered my services and only a couple replied off list, so in an attempt to get the ball rolling...

If you're an APRS software author could I ask you to send the following please:

1. Name and callsign.
2. Software under development and OS.
3. If you are willing/have the time/inclination to participate in APRS spec development.
4. Any limitations.

Short replies preferred please to get things rolling.

Oh, and if you're an author and can't for whatever reason participate, = could you please acknowledge this message so that we're all aware of your = stance as the spec is developed.

Thank you

Ciemon G0TRT

END OF DIGEST

You are currently subscribed to aprsspec as: darryl@radio-active.net.au
To unsubscribe send a blank email to
leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Jan 29 17:49:34 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id RAA07032
for <lyris.aprsspec@tappr.org>; Wed, 29 Jan 2003 17:49:34 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Wed, 29 Jan 2003 15:48:20 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: How to set the server filter at logon.
In-Reply-To: <LYR29682-114562-2003.01.11-04.33.03--
curt.mills#fluke.com@lists.tappr.org>
Message-ID: <LYR11589-117926-2003.01.29-18.36.12--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 29 Jan 2003 23:48:20.0677 (UTC)
FILETIME=[E751C750:01C2C7F0]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>

X-Message-Id: <Pine.LNX.4.33.0301291541100.23098-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Sat, 11 Jan 2003, Roger Bille wrote:

> Method #1
> The server logon string is check for a filter keyword and anything after
> that is treated as a filter definition. The filter keyword must be the 8th
> argument. For example:
>
> user SM5NRK pass 12345 vers Test 1.0 filter r/63/16/1000 t/wn

How do other servers handle the extra parameters? Ignore them, or
refuse to log on the user?

> Method #2
> The filter definition can also be sent in a comment line between the client
> and the server. The comment line must start with #. For example:
>
> user SM5NRK pass 12345 vers Test 1.0
> # filter r/63/16/1000 t/wn

Can't such comment lines come in from all kinds of sources? What if
a comment line containing filter parameters comes in from some other
source through and igate. Can the igate's filtering parameters then
get changed by someone on RF near the igate?

Perhaps the comment line has to be immediately following the logon
line? If so, that would reduce the above problem considerably.

> You define the filter by doing the following:
>
> 1. Connect and logon to a filter enabled port on a server
> 2. Send an APRS message to the server requesting the filter you want

This is the method we might have had problems implementing in
Xastir. Xastir has no concept currently of the "callsign" of the
remote server. We aren't parsing it out for anything currently.
Xastir only knows the ip address or hostname. If the callsign of
the remote server were always part of the hostname, we could still
have a problem in those cases where the user specified the server by
IP address. Yea, these are all workable, but they're a bit of a
pain.

I'm hoping to be able to use the first method listed above if other

servers don't have a problem with the extra parameters.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 18:02:35 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA07903
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 18:02:28 -0600 (CST)
content-class: urn:content-classes:message
Subject: [aprsspec] Re: How to set the server filter at logon.
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Date: Wed, 29 Jan 2003 18:02:08 -0600
Message-ID: <LYR11589-117927-2003.01.29-18.49.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
x-mimeole: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] Re: How to set the server filter at logon.
Thread-Index: AcLH8R/h69msU5DxT7uBsBbeP4nm3AAAAGUnw
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC0784CB@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA07903

> -----Original Message-----

> From: Curt Mills, WE7U [mailto:hacker@tc.fluke.com]

> Posted At: Wednesday, January 29, 2003 5:50 PM

> Subject: [aprsspec] Re: How to set the server filter at logon.
>

> How do other servers handle the extra parameters? Ignore
> them, or refuse to log on the user?

aprsD and javAPRSSrvr w/o javAPRSFilter ignore them. I don't know about
AHub.

> Can't such comment lines come in from all kinds of sources?
> What if a comment line containing filter parameters comes in
> from some other source through an igate. Can the igate's
> filtering parameters then get changed by someone on RF near the igate?

No. A comment line seen on RF will have an AX.25 header on it making it
a standard packet from the IGate. Servers do not pass comment lines.
The IGate would have to directly generate the comment line with the
filter keyword and filter parameters for the filter to be changed.

> This is the method we might have had problems implementing in
> Xastir. Xastir has no concept currently of the "callsign" of
> the remote server. We aren't parsing it out for anything
> currently. Xastir only knows the ip address or hostname. If
> the callsign of the remote server were always part of the
> hostname, we could still have a problem in those cases where
> the user specified the server by IP address. Yea, these are
> all workable, but they're a bit of a pain.

The messaging method is designed to allow users to easily change the
filter on the fly using standard APRS client software. There is no
requirement for the client software to know the callsign of the server.
The only requirement is for the user to know the callsign of the server
that they are currently connected to.

> I'm hoping to be able to use the first method listed above if
> other servers don't have a problem with the extra parameters.

This is how UI-View and APRS+SA have implemented the feature. We have
not had any reports of problems with this method (other than the usual
bug reports/enhancement requests which we welcome).

73,

Pete Loveall AE5PL
pete@ae5pl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 18:06:20 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA08019
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 18:06:11 -0600 (CST)
Message-ID: <LYR11589-117928-2003.01.29-18.53.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: "B. Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR11585-117926-2003.01.29-18.36.12--
bhildebrand#earthlink.net@lists.tapr.org>
Subject: [aprsspec] Re: How to set the server filter at logon.
Date: Wed, 29 Jan 2003 16:06:02 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <01a201c2c7f3\$608ba4e0\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

*** comments below

> On Sat, 11 Jan 2003, Roger Bille wrote:
>
> > Method #1
> > The server logon string is check for a filter keyword and anything
after
> > that is treated as a filter definition. The filter keyword must be the
8th
> > argument. For example:
> >
> > user SM5NRK pass 12345 vers Test 1.0 filter r/63/16/1000 t/wn
>
> How do other servers handle the extra parameters? Ignore them, or
> refuse to log on the user?

*** APRSd, JavAPRSrvr servers ignore them from my testing and comments by Pete, AE5PL.

>
> > Method #2
> > The filter definition can also be sent in a comment line between the client
> > and the server. The comment line must start with #. For example:
> >
> > user SM5NRK pass 12345 vers Test 1.0
> > # filter r/63/16/1000 t/wn
>
> Can't such comment lines come in from all kinds of sources? What if
> a comment line containing filter parameters comes in from some other
> source through and igate. Can the igate's filtering parameters then
> get changed by someone on RF near the igate?
>
> Perhaps the comment line has to be immediately following the logon
> line? If so, that would reduce the above problem considerably.

*** If the line came from RF, it would have a callsign>path:data construct. It should not be an issue.

>
> > You define the filter by doing the following:
> >
> > 1. Connect and logon to a filter enabled port on a server
> > 2. Send an APRS message to the server requesting the filter you want
>
> This is the method we might have had problems implementing in
> Xastir. Xastir has no concept currently of the "callsign" of the
> remote server. We aren't parsing it out for anything currently.
> Xastir only knows the ip address or hostname. If the callsign of
> the remote server were always part of the hostname, we could still
> have a problem in those cases where the user specified the server by
> IP address. Yea, these are all workable, but they're a bit of a
> pain.
>
> I'm hoping to be able to use the first method listed above if other
> servers don't have a problem with the extra parameters.

*** I did not implement the Message method in APRS+SA. I did implement both the extended login string and # comment method. In the APRSERVE.TXT file which APRS+SA uses, and I suspect Xastir has something similar, I added the ability to add the complete filter. This means, # filter r/63/16/1000 t/wn. So an entry would be of the form:
server port comment # filter r/63/16/1000 t/wn

where server is the server address, port is the TCP/IP port, comment is any additional text except octothorpe, "#", which is used to delimit the start of the filter data. For APRS+SA, this made the new file backward compatible with older versions. I do require the word "filter" to be specified as there may be additional keywords used for filters in the future.

```
>
> --
> Curt Mills, WE7U                      hacker_NO_SPAM_@tc.fluke.com
> Senior Methods Engineer/SysAdmin
> "Lotto:    A tax on people who are bad at math!"
> "Windows:  Microsoft's tax on computer illiterates!" -- WE7U
> "The world DOES revolve around me:  I picked the coordinate system!"
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>
```

```
---
You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
```

```
From bounce-aprsspec-11589@lists.tappr.org  Wed Jan 29 19:04:50 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
    by tappr.org (8.9.3/8.9.3/1.13) with SMTP id TAA09992
    for <lyris.aprsspec@tappr.org>; Wed, 29 Jan 2003 19:04:42 -0600 (CST)
Content-Type: text/plain;
    charset="iso-8859-1"
From: Dale Heatherington <dale@wa4dsy.net>
Reply-To: Dale Heatherington <dale@wa4dsy.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: How to set the server filter at logon.
Date: Wed, 29 Jan 2003 20:04:16 -0500
User-Agent: KMail/1.4.3
References: <LYR18156-117926-2003.01.29-18.36.12--dale@wa4dsy.net@lists.tappr.org>
In-Reply-To: <LYR18156-117926-2003.01.29-18.36.12--dale@wa4dsy.net@lists.tappr.org>
Xmailer-Not: M$ Lookout Virus Express
MIME-Version: 1.0
Message-Id: <LYR11589-117954-2003.01.29-19.51.48--
lyris.aprsspec@tappr.org@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
```

List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <200301292004.16594.dale@wa4dsy.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA09992

Just for the record aprsd 215b9 has a means of setting a port filter at login. This was done several months ago and only applies to the new OmniPort, 14600. I hoped this would inspire a gradual move to using a single port for all user streams. Of course it could also be expanded to any type user defined filter.

See:

<http://www.wa4dsy.net/aprs/ports.html#omniport>

Messages are addressed to "SERVER" , not the servers callsign. The filter can be set prior to login.
eg:
pf(all,history)
user wa4dsy pass 12345 vers macaprs 1.0

Note the login string is not modified. No comment lines are used. The same function that parses the login also parses the filter command.

And, after login commands can be put in messages addressed to SERVER.

eg:
WA4DSY>APRS::SERVER :pf(all,history)

To prevent other aprs servers from responding to the message the following is done:
Messages addressed to SERVER are swallowed and not repeated. Message must be from login callsign.

Aprsd can connect to other aprsd servers and automatically issue a port filter command. The aprsd.conf file server login syntax was expanded to accomodate this.

eg:
Server wa4dsy.net 14600 server-ro portfilter(local)

Dale
WA4DSY

On Wednesday 29 January 2003 6:48 pm, you wrote:

> On Sat, 11 Jan 2003, Roger Bille wrote:

> > Method #1

> > The server logon string is check for a filter keyword and anything after
> > that is treated as a filter definition. The filter keyword must be the
> > 8th argument. For example:

> >

> > user SM5NRK pass 12345 vers Test 1.0 filter r/63/16/1000 t/wn

>

> How do other servers handle the extra parameters? Ignore them, or
> refuse to log on the user?

>

> > Method #2

> > The filter definition can also be sent in a comment line between the
> > client and the server. The comment line must start with #. For example:

> >

> > user SM5NRK pass 12345 vers Test 1.0

> > # filter r/63/16/1000 t/wn

>

> Can't such comment lines come in from all kinds of sources? What if
> a comment line containing filter parameters comes in from some other
> source through and igate. Can the igate's filtering parameters then
> get changed by someone on RF near the igate?

>

> Perhaps the comment line has to be immediately following the logon
> line? If so, that would reduce the above problem considerably.

>

> > You define the filter by doing the following:

> >

> > 1. Connect and logon to a filter enabled port on a server

> > 2. Send an APRS message to the server requesting the filter you want

>

> This is the method we might have had problems implementing in
> Xastir. Xastir has no concept currently of the "callsign" of the
> remote server. We aren't parsing it out for anything currently.
> Xastir only knows the ip address or hostname. If the callsign of
> the remote server were always part of the hostname, we could still
> have a problem in those cases where the user specified the server by
> IP address. Yea, these are all workable, but they're a bit of a

> pain.
>
> I'm hoping to be able to use the first method listed above if other
> servers don't have a problem with the extra parameters.

--

Dale Heatherington
<http://www.wa4dsy.net>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 21:09:31 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA15701
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 21:09:30 -0600 (CST)
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Wed, 29 Jan 2003 22:08:02 -0500
In-Reply-To: <LYR18229-117923-2003.01.29-18.02.11--jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] [aprssig] New spec - short-term deliverables
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Message-Id: <LYR11589-117968-2003.01.29-21.55.59--lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id: <20030130030814.CTLN17758.hughes-fe01@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA15701

Forwarded from APRSIG

Here's what I'm hoping to produce in the near term:

1. An APRS-IS translator that'll translate a full stream and provide it to

clients in the new format.

This will probably be an NT service, unless someone wants to volunteer to write a Unix daemon.

2. An ActiveX control to interface with the translator.

Just tell it to connect, and it'll raise an appropriate event whenever a recognized message is received. If it doesn't recognize the message format, it'll pass the raw data to a generic event so you can parse your own messages.

I think I'll also add an encapsulation message type for carrying standard APSR messages. That way, you can drop the control into an existing application, and use your existing parser to handle those messages that aren't translated yet.

I figure that if I can get this going, it really doesn't matter if anyone else adopts it as a standard. It'll still be useful to me, and if the translator becomes a standard feature on APRS-IS servers it'll make client development easier and reduce bandwidth usage, at least a bit. Notice that the example message took only 18 bytes for time and position with better precision than current formats allow.

Scott / N1VG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 21:09:54 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA15713
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 21:09:52 -0600 (CST)
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Wed, 29 Jan 2003 22:08:37 -0500
In-Reply-To: <LYR18229-117919-2003.01.29-17.45.26--
jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] [aprssig] New spec - working notes
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Message-Id: <LYR11589-117969-2003.01.29-21.56.56--

lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id: <20030130030847.CTMZ17758.hughes-fe01@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA15713

Thanks to everyone who responded off-list. I figure it's time we had something concrete to fight about, so here's my proposal for a general message header and two primitive message types.

Message Header Format

bits: 1	7	8	8	

ext_flag	length	msg_type	ext_type	message body...

ext_flag - A '1' in this field indicates a 16-bit message ID.

length - Length of message, inclusive of message ID.

msg_type - The message ID if ext_flag = 0, otherwise the low byte of the message ID

ext_type - High byte of message ID. Only present if ext_flag = 1.

This message type scheme allows for 65,792 message types (256 standard and 65,536 extended).

8-bit message IDs are reserved for common, standard messages. 16-bit IDs are used for less-frequently used messages and experimental message types.

0-byte messages are supported for instances where the presence of the message type alone conveys the required information.

No CRC is included, as a reliable transport layer is assumed.

All numbers are little-endian.

Position format:

All positions reference the WGS84 datum using decimal degrees.
Coordinates are represented by 32-bit unsigned integers as follows:

Integer longitude = (longitude + 180) * 2²³
Integer latitude = (latitude + 90) * 2²⁴

Altitude is in meters above WGS84 ellipsoid, stored as a 16-bit unsigned integer.

Time format:

All times are in seconds elapsed since 1 Jan 1970 00:00:00.0 UTC, stored as a 32-bit unsigned integer.
This is equivalent to the standard Unix time format.

MSG #01 - Position

[Latitude] 32 bits
[Longitude] 32 bits
[Altitude] 16 bits

Example:

0B 01 06 81 F5 7C 5E BA C9 1D 65 01 = 34.959 N, 120.424 W, 257 meters

MSG #02 - Timestamp

[Time] 32 bits

Example:

05 02 6E 3E 38 3E = Wed, 29 Jan 2003 20:49:50 UTC

Position with timestamp example (18 bytes total):

0B 01 06 81 F5 7C 5E BA C9 1D 65 01 05 02 6E 3E 38 3E

Errata

16-bit unsigned altitudes may be a problem in areas like Death Valley.
Use of signed integers would limit altitudes to 32,767 meters max.
This could pose a problem for balloon experiments at high altitudes.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Jan 29 21:10:10 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id VAA15723
for <lyris.aprsspec@tapr.org>; Wed, 29 Jan 2003 21:10:06 -0600 (CST)
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Wed, 29 Jan 2003 22:09:16 -0500
In-Reply-To: <LYR18229-117929-2003.01.29-19.30.36--jeff#aerodata.net@lists.tapr.org>
Subject: [aprsspec] [aprssig] RE: New spec - working notes
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"
Message-Id: <LYR11589-117970-2003.01.29-21.57.07--lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id: <20030130030928.CT0P17758.hughes-fe01@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id VAA15723

Updated notes to include new altitude format, plus course and speed and

comment messages: (Bob, you're unusually quiet. Comments?)

N1VG format working notes

Message Header Format

```
bits: 1      7      8      8
-----
| ext_flag | length | msg_type | ext_type | message body... |
-----
```

ext_flag - A '1' in this field indicates a 16-bit message ID.

length - Length of message, inclusive of message ID.

msg_type - The message ID if ext_flag = 0, otherwise the low byte of the message ID

ext_type - High byte of message ID. Only present if ext_flag = 1.

This message type scheme allows for 65,792 message types (256 standard and 65,536 extended).

8-bit message IDs are reserved for common, standard messages. 16-bit IDs are used for less-frequently used messages and experimental message types.

0-byte messages are supported for instances where the presence of the message type alone conveys the required information.

No CRC is included, as a reliable transport layer is assumed.

All numbers are little-endian. Signed integers use two's complement notation.

MSG #01 - Position

[Latitude] 32 bits

[Longitude] 32 bits

[Altitude] 24 bits

Positions reference the WGS84 datum using decimal degrees. Coordinates are represented by 32-bit unsigned integers as follows:

Integer longitude = (longitude + 180) * 2²³

Integer latitude = (latitude + 90) * 2²⁴

Altitude is in centimeters above WGS84 ellipsoid, stored as a 24-bit signed

integer.

Example:

0C 01 06 81 F5 7C 5E BA C9 1D 7C 47 00 (34.959 N, 120.424 W, 183.0 meters)

MSG #02 - Timestamp

[Time] 32 bits

Times are in seconds elapsed since 1 Jan 1970 00:00:00.0 UTC (UNIX format).

Example:

05 02 6E 3E 38 3E (Wed, 29 Jan 2003 20:49:50 UTC)

MSG #03 - Freeform Comment

[Text] Up to 126 characters, not zero-delimited

The purpose of the comment is to provide a free-form text field associated with the originating station.

Example:

05 03 41 42 43 44 (ABCD)

MSG #04 - Course and Speed

[Course] 16 bits (degrees)

[Speed] 16 bits (cm/sec)

Speeds are in centimeters per second. Course is in degrees relative to true north.

Example:

05 04 C3 00 AE 08 (195 degrees at 80 km/hr)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 30 01:23:14 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id BAA25943
for <lyris.aprsspec@tapr.org>; Thu, 30 Jan 2003 01:23:13 -0600 (CST)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Thu, 30 Jan 2003 08:21:49 +0100
Subject: [aprsspec] Re: How to set the server filter at logon.
From: Juergen Frank <db2fm@jfsattv.de>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-118014-2003.01.30-02.09.43--
lyris.aprsspec@tapr.org>
In-Reply-To: <LYR31286-117954-2003.01.29-19.51.48--
db2fm@jfsattv.de>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Juergen Frank <db2fm@jfsattv.de>
X-Message-Id: <BA5E911D.8DA8%db2fm@jfsattv.de>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id BAA25943

Hello Dale,

I talked to Hans-Juergen (DL5DI, sysop of db0lj) about port filtering some days ago and he gave me this info.

One thing I'm really missing in this filter implementation:

There's no filter by distance.

Is it planned to include it in future versions?

Is it also planned to make a standard (not to use the word 'spec') for filter commands and the syntax they could be send to the server?

Right now we have two syntaxes... :(

73 de Juergen db2fm

am 30.01.2003 2:04 Uhr schrieb Dale Heatherington unter dale@wa4dsy.net:

> Just for the record aprsd 215b9 has a means of setting
> a port filter at login. This was done several months ago
> and only applies to the new OmniPort, 14600.
> I hoped this would inspire a gradual move to
> using a single port for all user streams. Of course
> it could also be expanded to any type user defined
> filter.

>

> See:

>

> <http://www.wa4dsy.net/aprs/ports.html#omniport>

>

> Messages are addressed to "SERVER" , not the
> servers callsign. The filter can be set prior to login.

> eg:

> pf(all,history)

> user wa4dsy pass 12345 vers macaprs 1.0

>

> Dale

> WA4DSY

--

DB2FM

Juergen Frank

mailto: db2fm@amsat.org

mailto: db2fm@dark.de

mailto: db2fm@jfsattv.de

ICQ: 144135020

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 30 04:11:34 2003

Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.13) with SMTP id EAA00935
for <lyris.aprsspec@tapir.org>; Thu, 30 Jan 2003 04:11:33 -0600 (CST)
From: "Roger Bille" <roger.bille@telia.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
Subject: [aprsspec] SV: Re: How to set the server filter at logon.
Date: Thu, 30 Jan 2003 11:13:34 +0100
Message-ID: <LYR11589-118020-2003.01.30-04.58.41--
lyris.aprsspec@lists.tapir.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
In-Reply-To: <LYR25861-118014-2003.01.30-02.09.43--
roger.bille@telia.com@lists.tapir.org>
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: "Roger Bille" <roger.bille@telia.com>
X-Message-Id: <FLEFLCKKDFDPHKNHJPEBIECGFAAA.roger.bille@telia.com>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Juergen,

> Is it also planned to make a standard (not to use the word 'spec') for
> filter commands and the syntax they should be send to the server?
> Right now we have two syntaxes... :(

When I defined my syntax in javPRSFilter I was not aware of Dale's syntax and I can not recall that I have seen it somewhere before (I could be wrong). My design goal was to create simple and short command structure that will take as few keystrokes as possible but still provide a big variety of options and easy to remember. The current implementation provide 8 different types of filters.

An other thing is that my implementation is purly targeting on filtering based on the packets content and not how they are handled by the server or how they entered there. The later depend on how the server is designed and is actullay not possible to add in my code.

I had only the end users in my mind to see what they would like to have.

Server statistics and other server data is handled differently between servers and I think Dale's is a nice implementation for aprsd sysop and javAPRSSrvr have other solutions for it's sysop's to provide the same thing.

If Dale plan to add packet content based filtering I think it would be nice to create one syntax. Today we provide 2 different things. javAPRSFilter provide packet content filtering and Dale's OmniPort server processing information (at least what I understand)

73 de sm5nrk/Roger

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 30 13:51:47 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA23490
for <lyris.aprsspec@tapr.org>; Thu, 30 Jan 2003 13:51:42 -0600 (CST)
Message-ID: <LYR11589-118080-2003.01.30-14.38.21--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] New spec discussion
Date: Thu, 30 Jan 2003 19:49:43 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE03C6189C@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

As a couple people have suggested, I'm moving this discussion to the spec list. I may still seek input from the wider APRS community on specific issue. For review, here's my current version of the spec working notes. I hope it explains clearly enough what I'm trying to accomplish.

N1VG protocol working notes

Purpose

This document describes a proposed replacement for and/or adjunct to the existing APRS specification. The protocol described here allows for simple or complex messages to be built from a set of simple component message formats.

Message Groups

One or more message components forms a Message Group. A Message Group may be optionally prefixed with a sequence number. The sequence number allows receiving stations to identify the most recent data from the sender. In a peer-to-peer environment, stations may choose to store the most recent Message Group from each sender heard. Future extensions to the protocol will allow peer stations to exchange and synchronize information about neighboring stations.

Data Types and Units

All numeric data types are little-endian (low-byte first). Signed integers use two's complement notation. Single and double precision floating point numbers use IEEE Standard 754 format. Character values are standard ASCII. The protocol will use SI units exclusively.

Message Header Format

Every component message of the protocol is preceeded by a Message Header. This indicates the length and type of the following message. The length is provided even in fixed-length messages to allow simple clients to skip unsupported message types.

bits: 1	7	8	8	

ext_flag	length	msg_type	ext_type	message body...

ext_flag - A '1' in this field indicates a 16-bit message ID.

length - Length of message, inclusive of message ID.

msg_type - The message ID if ext_flag = 0, otherwise the low byte of the message ID

ext_type - High byte of message ID. Only present if ext_flag = 1.

This message type scheme allows for 65,792 message types (256 standard and 65,536 extended). 8-bit message IDs are reserved for common, standard messages. 16-bit IDs are used for less-frequently used messages, status flags, and experimental message types. 0-byte messages are supported for instances where the presence of the message type alone conveys the required information.

A length field of 0 (bytes 0x00 and 0x80) is reserved and currently undefined.

No CRC is included, as a reliable transport layer is assumed.

Message Format Definitions

MSG #00 - Message Group Sequence

[Sequence] 16 bits

The message group sequence optionally associates multiple message parts with a single sequence number. The sequence number starts at 1 and is incremented each time the originating station has new information to transmit. A message group may not contain more than one of the same message type unless otherwise noted. If a datagram-oriented transport is used, message groups may be split across datagrams, but each datagram must carry the Message Group Sequence message.

MSG #01 - Originating Station

[Callsign] 6 bytes

[SSID] 8 bits

[Sequence] 16 bits

[Network] 8 bits

This message type is intended to prefix messages which originated with other stations. Messages may be collected and grouped together for transmission by a digipeater using this mechanism, or it may be used to identify messages when carried over a backbone network. In the case of a stream-oriented transport such as TCP, all following messages are assumed to originate at the specified station until another Originating Station identification message is received. For datagram-oriented transports like unconnected AX.25 and UDP, the scope of the identification message extends only to the end of the underlying datagram.

A Message Group Sequence may follow an Originating Station message to indicate the start of a new message sequence. The callsign, SSID, and originating network values are carried over to the new message group. This may be used for transmitting a multiple-sequence history for a given station.

If the originating station did not provide a sequence number, the sequence field is set to null (ASCII 0).

Callsign - The originating station's callsign, right-padded with nulls (ASCII 0).

SSID - The SSID of the originating station.

Sequence - See Message Group Sequence. A sequence of 0 indicates no associated group.

Network - Identification of the originating network.

Currently defined network IDs:

00 - Primary VHF channel (144.39 in the US)

01 - APRS-IS backbone

02 - UHF backbone

03 - HF

Message groups lacking an Originating Station prefix are assumed to originate with the sender. The originating network is assumed to be that on which the message group was received.

MSG #02 - Path Trace

[Callsign] 6 bytes

[SSID] 8 bits

[Network] 8 bits

<repeated 0 or more times>

To request a path trace, a station may include an empty Path Trace message. Any station the message passes through should add its own callsign and SSID to the Path Trace message. A Path Trace may be added by any station along the path, whether the originating station requested it or not. The network ID indicates the network on which the station received the message.

Example:

01 05 (Request a path trace)

MSG #03 - Heard-By List

[Network] 8 bits
<repeated 0 or more times>

A station transmitting a message to another network must add the source network's ID to this list, if the source network is not the originating network of the message. This message type should only be present in message groups that have passed through a network gateway.

MSG #04 - Position

[Latitude] 32 bits
[Longitude] 32 bits
[Altitude] 24 bits

Positions reference the WGS84 datum using decimal degrees. Coordinates are represented by 32-bit unsigned integers as follows:

Integer longitude = (longitude + 180) * 2²³
Integer latitude = (latitude + 90) * 2²⁴

Altitude is in centimeters above WGS84 ellipsoid, stored as a 24-bit signed integer.

Example:

0C 01 06 81 F5 7C 5E BA C9 1D 7C 47 00 (34.959 N, 120.424 W, 183.0 meters)

MSG #05 - Timestamp

[Time] 32 bits

Times are in seconds elapsed since 1 Jan 1970 00:00:00.0 UTC (UNIX format).

Example:

05 02 6E 3E 38 3E (Wed, 29 Jan 2003 20:49:50 UTC)

MSG #06 - Freeform Comment

[Text] Up to 126 characters, not zero-delimited

The purpose of the comment is to provide a free-form text field associated with the originating station.

Example:

05 03 41 42 43 44 (ABCD)

MSG #07 - Course and Speed

[Course] 16 bits (degrees)

[Speed] 16 bits (cm/sec)

Speeds are in centimeters per second. Course is in degrees relative to true north.

Example:

05 04 C3 00 AE 08 (195 degrees at 80 km/hr)

MSG #08 - Networks Available

[Network] 8 bits

<repeated 0 or more times>

A station may use this message type to announce the Network IDs of the networks it is connected to and willing to pass traffic to or from.

MSG #0100 - Emergency

(No content defined)

Presence of this message indicates an emergency situation.

Example:

82 00 01

Extended message types 0x100 through 0x1ff are reserved for status flags.

MSG #xx - Satellite Keplerian element

[Sat ID] 24 bits (NORAD catalog number)
[Epoch time] 64 bits (double float)
[ndot] 32 bits - \dot{n} /2 drag parameter (single float)
[nndot] 32 bits - \ddot{n} double dot/6 drag parameter (single float)
[bstar] 32 bits - Bstar drag parameter (single float)
[elset] 16 bits - Element set number
[inclination] 32 bits - orbital inclination (single float)
[ra] 32 bits - Right ascension (single float)
[eccentricity] 32 bits - orbital eccentricity (single float)
[aop] 32 bits - argument of perigee (single float)
[ma] 32 bits - mean anomaly (single float)
[mm] 64 bits - mean motion (double float)
[rev] 16 bits - revolution number

All values are the same as those in standard NORAD TLEs, taking into account implied decimals and exponents.

Example Scenario:

Tracker X1AA -> VHF:

Position
Timestamp
Course/Speed
Trace Path

Tracker X2AB -> VHF:

Sequence 45
Position
Timestamp
Weather

Digipeater D1AA -> VHF:

Networks Available: 0 2
Originating Station X1AA Sequence 0 Network 0:
Position

Timestamp
Course/Speed
Trace Path: D1AA
Originating Station X2AB Sequence 45 Network 0:
Position
Timestamp
Weather

IGATE G1ATE -> APRS-IS:

Networks Available: 0 1
Originating Station D1AA Sequence 0 Network 0:
Networks Available: 0 2
Originating Station X1AA Sequence 0 Network 0:
Position
Timestamp
Course/Speed
Trace Path: D1AA(Net 0) G1ATE(Net 0)
Originating Station X2AB Sequence 45 Network 0:
Position
Timestamp
Weather

APRS-IS -> TCP Client:

Originating Station G1ATE Sequence 0 Network 1:
Networks Available: 0 1
Originating Station D1AA Sequence 0 Network 0:
Networks Available: 0 2
Originating Station X1AA Sequence 0 Network 0:
Position
Timestamp
Course/Speed
Trace Path: D1AA(Net 0) G1ATE(Net 0) <APRS-IS server>(Net 1)
Originating Station X2AB Sequence 45 Network 0:
Position
Timestamp
Weather

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Jan 30 15:57:55 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id PAA28499

for <lyris.aprsspec@tapr.org>; Thu, 30 Jan 2003 15:57:52 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Thu, 30 Jan 2003 13:56:26 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: How to set the server filter at logon.
In-Reply-To: <01a201c2c7f3\$608ba4e0\$20dcfea9@Thinkpad>
Message-ID: <LYR11589-118099-2003.01.30-16.44.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 30 Jan 2003 21:56:27.0116 (UTC)
FILETIME=[70236AC0:01C2C8AA]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0301301353100.23098-1000000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 29 Jan 2003, B. Hildebrand wrote:

> *** I did not implement the Message method in APRS+SA. I did implement
> both the extended login string and # comment method.

Thanks Brent and the rest of you who answered my questions. I just
added method #1 (logon string) into Xastir CVS. It's working great,
settable per internet server in the properties dialog for that
server.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 5 11:09:09 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id LAA21512
for <lyris.aprsspec@tappr.org>; Wed, 5 Feb 2003 11:09:06 -0600 (CST)
Date: Wed, 05 Feb 2003 11:56:10 -0500
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Winter 2003 Packet Status Register Available
Message-ID: <LYR11589-119070-2003.02.05-11.53.33--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; format=flowed
Content-Disposition: inline
X-Spam-Status: No, hits=-1.2 required=5.0
tests=BALANCE_FOR_LONG,SPAM_PHRASE_00_01
version=2.43
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: John Ackermann N8UR <jra@febo.com>
X-Message-Id: <14407587.1044446170@WUSJA129861-8HP.corp.ncr.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tappr.org id LAA21512

The Winter, 2003 issue of TAPR's journal, The Packet Status Register, is
available online at <http://www.tappr.org/PSR>.

Its contents include:

- * New 802.11 E-List
- * TAPR Project Policy
- * OneTech π02 Technical Symposium
- * Book Review: 802.11 Wireless Networks
- * 3D Environments and Mars: A Follow-up from the 2002 DCC
- * Extending Icom OPC-581 Extension Cables for Icom IC-706s
- * Digital Radio Mondiale and Amateur Radio Implications
- * 2003 in Connecticut

Enjoy!

73,
John

John Ackermann N8UR jra@febo.com http://www.febo.com
President, TAPR n8ur@tapr.org http://www.tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 5 17:02:46 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA12560
for <lyris.aprsspec@tapr.org>; Wed, 5 Feb 2003 17:02:45 -0600 (CST)
Message-ID: <LYR11589-119181-2003.02.05-17.49.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Wed, 05 Feb 2003 18:00:28 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: TAPR APRS eMail Remailer <aprssig@lists.tapr.org>
Subject: [aprsspec] Re: [aprssig] re: aprs spec/words of warning
References: <LYR27060-119136-2003.02.05-16.43.44--w2ev#arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E41978C.7C6598EB@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

cc:ing this to the APRSpec list to migrate it there...

> I agree. The small advantage of Binary is more than offset by dozens of
> reasons to stick with printable ascii. BOB, WB4APR

I suppose it all depends on what the excersise is trying to accomplish.

If it's simply binary-encoding the existing spec, then then I agree.

>From what I'm reading, though...this newly emerging protocol will include:
o finer detail (smaller stept) than what is available in the
existing protocol

o new parameters that the existing protocol doesn't address

That being said, this new protocol work appears to have more advantage than what may appear on the surface.

Of course, my opinion and 99-cents gets you a Big-Gulp at the corner mini-market.

Regards,
Ev, W2EV

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 5 17:13:47 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA13601
for <lyris.aprsspec@tapr.org>; Wed, 5 Feb 2003 17:13:46 -0600 (CST)
Message-ID: <LYR11589-119182-2003.02.05-18.01.12--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] DF reports
Date: Wed, 5 Feb 2003 23:13:26 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE03E8B811@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can someone fill me in on the real-world use of the DF reporting formats?
Some things that bug me in the spec:

'N'umber is defined, but not processed. Does anyone use this? Does it mean anything?

'R'ange doesn't seem to make much sense for a tracking device that's not connected to a map display. This value has no direct relationship to the signal, right?

I'd assume 'Q'uality would usually be a fixed value to indicate the beamwidth of the antenna.

Omni signal strength at least makes sense. How much is this used, and what hardware are people using to do it?

Yeah, this is more a real-world question than a spec question, but if someone here can answer it it'd spare the SIG more of my rambling. =]

Thanks...

Scott / N1VG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 5 17:42:35 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id RAA15167
for <lyris.aprsspec@tapr.org>; Wed, 5 Feb 2003 17:42:33 -0600 (CST)
Date: Wed, 5 Feb 2003 18:41:49 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: DF reports
In-Reply-To: <LYR11586-119182-2003.02.05-18.01.12--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-119184-2003.02.05-18.30.01--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0302051831130.16918-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

On Wed, 5 Feb 2003, Miller Scott Contr 30SCS/FTI wrote:

> Can someone fill me in on the real-world use of the DF reporting formats?
> Some things that bug me in the spec:
>
> 'R'ange doesn't seem to make much sense for a tracking device that's not
> connected to a map display. This value has no direct relationship to the
> signal, right?

It is very important. An HF BEAM can detect a signal coming in from 3000 miles away. Thus, his bearing line should be 3000 miles long. A double-ducky handheld VHF DF unit can get a bearing on a signal maybe 20 miles away if he is on a hill. Thus a 20 mile bearing line is appropriate. Once he is in close, the signal is strong, and his DFING has revealed that he is within about a mile of the source, then a 1 mile DF line is appropriate.

Some APRS client programs do not use this data, and their use in actual DF work is almost useless because they do not display the ORIGINATORS knowledge of how far OUT his bearing line is of value...

> I'd assume 'Q'uality would usually be a fixed value to indicate the
> beamwidth of the antenna.

Yes, You could use it to display various width wedges. In APRSDOS, I did not do wedges because it just confused the display (since I could not shade it in in DOS) so I just made the bearing line more or less "dotted" to show the quality of the fix...

> Omni signal strength at least makes sense. How much is this used, and what
> hardware are people using to do it?

Yes be sure to see <http://www.ew.usna.edu/~bruninga/dfing.html>

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Wed Feb 5 18:28:29 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id SAA17158
for <lyris.aprsspec@tapr.org>; Wed, 5 Feb 2003 18:28:23 -0600 (CST)
Message-ID: <LYR11589-119209-2003.02.05-19.15.45--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Authentication
Date: Thu, 6 Feb 2003 00:19:37 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE03E8B835@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Has anyone ever looked at the feasibility of using a digital signature algorithm for authentication in APRS or packet in general? My concern is mostly with object and item reports - if I mark a crash site or victim location on a map, I don't necessarily want someone to be able to move it. A real public-key infrastructure would be difficult to implement, I think, but it seems to me that you ought to at least be able to ensure that the creator of an object is the only one who can change it, if that's what they want. Elliptic Curve Digital Signature Algorithm seems like an ideal algorithm for implementing this. You could put your public key in the initial transmission, and subsequent transmissions would be verifiably from the same source. A 160-bit ECC key is roughly equivalent to a 1024-bit RSA key, and 108 bits is the longest ECC key that's been cracked so far. 128 bits (16 bytes) would seem more than sufficient for amateur purposes.

Now, before anyone has a fit about cryptography in amateur radio, keep in mind that this DOES NOT CONCEAL THE MEANING of a message. It only serves to verify that two or more messages came from the same source.

Thoughts, anyone?

Scott / N1VG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 12 14:30:56 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA21934
for <lyris.aprsspec@tappr.org>; Wed, 12 Feb 2003 14:30:54 -0600 (CST)
Message-ID: <LYR11589-120292-2003.02.12-15.18.05--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Mailing list for new spec development
Date: Wed, 12 Feb 2003 20:29:47 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE03E8BD4E@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I've created a new mailing list dedicated to discussion and development of the new (as yet unnamed) binary protocol. To subscribe, send a message to lists@n1vg.net with the subject line 'subscribe spec'.

I've had lots of good feedback on the APRS SIGs about this project, but I don't want to clutter up the lists with lots of technical discussions that aren't strictly about APRS. I'd like to encourage anyone who's interested in contributing to the protocol, or who just wants to lurk and see what's going on, to join the list.]

For anyone who's missed the previous discussions about the proposed protocol, I'll be setting up a website soon with a summary of the project's goals, as well as the current version of the spec.

Scott / N1VG

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 12 14:47:26 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22548
for <lyris.aprsspec@tappr.org>; Wed, 12 Feb 2003 14:47:23 -0600 (CST)
Message-ID: <LYR11589-120294-2003.02.12-15.35.06--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 12 Feb 2003 20:46:49 +0000
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Mailing list for new spec development
References: <LYR26815-120292-2003.02.12-15.18.05--
roger@peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-120292-2003.02.12-15.18.05--
roger@peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <y2YfTWA5KtS+Ew1H@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <LYR26815-120292-2003.02.12-15.18.05--roger@peaksys.co.uk@lists.tappr.org>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenbergh.af.mil> writes
>I've created a new mailing list dedicated to discussion and development of
>the new (as yet unnamed) binary protocol. To subscribe, send a message to
>lists@n1vg.net with the subject line 'subscribe spec'.

Is there a reason why it shouldn't be discussed in this list? I don't want to join yet another list.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 12 14:54:55 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.13) with SMTP id OAA22831
for <lyris.aprsspec@tapr.org>; Wed, 12 Feb 2003 14:54:47 -0600 (CST)
Message-ID: <LYR11589-120295-2003.02.12-15.42.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mailing list for new spec development
Date: Wed, 12 Feb 2003 20:54:22 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE03E8BD5A@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I've had a couple of people say 'but it's not APRS'. I'd rather just avoid the whole issue and keep it separate. I'm sure I'll still be posting periodic updates here, and I'll also be on the main APRS SIG asking for input from the wider APRS community from time to time.

Scott / N1VG

-----Original Message-----

From: Roger Barker [mailto:roger@peaksys.co.uk]
Sent: Wednesday, February 12, 2003 12:47 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Re: Mailing list for new spec development

In message <LYR26815-120292-2003.02.12-15.18.05--roger#peaksys.co.uk@lists.tapr.org>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil> writes

>I've created a new mailing list dedicated to discussion and development of
>the new (as yet unnamed) binary protocol. To subscribe, send a message to
>lists@n1vg.net with the subject line 'subscribe spec'.

Is there a reason why it shouldn't be discussed in this list? I don't want to join yet another list.

--

Roger Barker, G4IDE - roger@peaksys.co.uk

For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Feb 12 18:00:28 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.13) with SMTP id SAA02543
for <lyris.aprsspec@tappr.org>; Wed, 12 Feb 2003 18:00:28 -0600 (CST)
Message-ID: <LYR11589-120311-2003.02.12-18.48.13--
lyris.aprsspec@tappr.org@lists.tappr.org>
Date: Wed, 12 Feb 2003 18:57:57 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Mailing list for new spec development
References: <LYR30253-120295-2003.02.12-15.42.27--w2ev@arrl.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tappr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tappr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tappr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E4ADF85.AF08C602@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Roger asked: "Is there a reason why it shouldn't be discussed in this list?
I don't want to join yet another list."

Scott said: "I've had a couple of people say 'but it's not APRS'. I'd
rather just avoid the whole issue and keep it separate."

Interestingly...I support both Roger's desire to keep life simple, as well as
the frustration that Scott must feel when trying to take something to a new
level and be met with such narrow vision.

Scott, what you are developing will, potentially, have a positive impact on several UI-Frame services...however...without buy-in by the APRS community, the chances of adoption of the protocol will be slim as APRS is still the "800-pound gorilla" of UI-Frame AX.25.

I will go wherever the discussion goes...but would offer the insight that -- by leaving it here -- you can keep the APRS community actively engaged in it's development and may see that it is more quickly accepted by APRS authors once it matures.

This list really isn't that busy anyway. :o)

fwiw.

Warm regards,

Ev, W2EV

--

What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 13 00:00:52 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id AAA17995
for <lyris.aprsspec@tapr.org>; Thu, 13 Feb 2003 00:00:48 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Mailing list for new spec development
Date: Thu, 13 Feb 2003 16:59:01 +1100
Message-ID: <LYR11589-120341-2003.02.13-00.47.54--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <LYR11660-120336-2003.02.13-00.00.13--darryl#radio-active.net.au@lists.tapr.org>

Importance: Normal
X-Scanner: exiscan *18jCOu-0007zM-00*72L.wo7IfoA* on Astaro Security Linux
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <005701c2d325\$0503eff0\$4004a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I share the views of many others in that this list is EXACTLY the right place to discuss any issues with SPEC development. And since there has not been too much traffic on this list recently, I don't think that the other members will have too many problems with this.

The risk with running another mailing list is that many people who would normally be reading the traffic will not see the posts as they go past.

There are no issues with creating another TAPR list, all you have to do is ask.

Darryl,
TAPR board member

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Feb 13 13:22:58 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.13) with SMTP id NAA19168
for <lyris.aprsspec@tapr.org>; Thu, 13 Feb 2003 13:22:57 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Date: Thu, 13 Feb 2003 14:22:28 -0500
In-Reply-To: <LYR22299-120341-2003.02.13-00.47.54--
jeff#aerodata.net@lists.tapr.org>

Subject: [aprsspec] Re: Mailing list for new spec development
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-Id: <LYR11589-120402-2003.02.13-14.10.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Jeff King <jeff@aerodata.net>
X-Message-Id: <20030213192239.WVZR17758.hughes-fe01@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA19168

Darryl:

I don't share those views.

This list (APRSSPEC) was specifically created to support the APRS-WG committee. After the APRS-WG was created, they documented the existing format. Over two years since then, and nothing.

The new list may fail, but at least give them every chance they can. I'd rather see a new list, be it Scott's or TAPR's. Then the people joining it are sincerely interested in progress. Change happens with just a few people, not a committee.

--

Jeff King, jeff@aerodata.net on 02/13/2003

On Thu, 13 Feb 2003 16:59:01 +1100, Darryl Smith wrote:

>I share the views of many others in that this list is EXACTLY the right
>place to discuss any issues with SPEC development. And since there has
>not been too much traffic on this list recently, I don't think that the
>other members will have too many problems with this.

>

>The risk with running another mailing list is that many people who would
>normally be reading the traffic will not see the posts as they go past.

>

>There are no issues with creating another TAPR list, all you have to do
>is ask.

>

>Darryl,

>TAPR board member

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Feb 25 23:38:50 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id XAA15607
for <lyris.aprsspec@tapr.org>; Tue, 25 Feb 2003 23:38:49 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] OpenTAC -
Date: Wed, 26 Feb 2003 16:35:27 +1100
Message-ID: <LYR11589-122102-2003.02.26-00.26.20--
lyris.aprsspec@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
Importance: Normal
X-Scanner: exiscan *18nuEf-0003nx-00*0HCbebDLjQ2* on Astaro Security Linux
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <004901c2dd58\$e16fb450\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

G'Day

I am sorry for the cross-post, but sometimes this is needed. For those that are not aware of it, [since they feel that they should get their APRS news from the APRS SIG and not from SlashDot.Org], there is a group producing a protocol called the OPENTRAC. Their WWW site is www.opentrac.org. Apart from the email address scott@opentrac.org I have no idea who is involved with this project.

I am going to email scott and find out more. However I am rather concerned about the fact that the first thing I heard about this spec was on SlashDot and not on APRSsig or APRSpec.

I am concerned that the unity we achieved by producing the working document will be destroyed by producing another spec, no matter how good.

Darryl VK2TDS

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From ben.abugu@lycos.co.uk Wed Feb 26 03:37:16 2003
Received: from lmout01.st1.spray.net (lmout01.st1.spray.net [212.78.202.120])
by tapr.org (8.9.3/8.9.3/1.16) with ESMTP id DAA25163;
Wed, 26 Feb 2003 03:37:15 -0600 (CST)
Received: from lycos.co.uk (pu62.st1.spray.net [212.78.202.57])
by lmout01.st1.spray.net (Postfix) with SMTP
id DD30B205B9; Wed, 26 Feb 2003 10:37:12 +0100 (MET)
From: ben abugu <ben.abugu@lycos.co.uk>
To: ben.abugu@lycos.co.uk
Message-ID: <1046252211031003@lycos-europe.com>
X-Mailer: LycosMail
X-Originating-IP: [216.139.176.157]
Mime-Version: 1.0
Subject: Attn: Contact
Date: Wed, 26 Feb 2003 10:36:51 +0100
Content-Type: multipart/mixed; boundary="=_NextPart_Lycos_0310031046252211_ID"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

--=_NextPart_Lycos_0310031046252211_ID
Content-Type: text/html; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

<STYLE>TABLE.mail_content {DISPLAY: block}</STYLE><TABLE width="440" height="300"
Class="mail_content" ALIGN="CENTER"><TR><TD VALIGN="TOP"
style="position:relative;"><div>
<STYLE>TABLE.mail_content {DISPLAY: block}</STYLE>

<TABLE align=center class=mail_content height=300 width=440>

<TBODY>

<TR>

<TD style="POSITION: relative" vAlign=top>

<DIV>Dear Friend,

I am MR ABIOLA GEORGE, Bank Manager of ORIENT BANK OF
NIGERIA, Lagos
Branch. I
have urgent and very confidential business
proposition for you. On
June 6
1997, an American oil consultant/contractor
with the Nigerian National

Petroleum Corporation, Mr. Nelly Cole made a
numbered time (Fixed)
deposited for twelve calendar months, valued at
US\$25,000,000.00
(TWENTY FIVE Million United States Dollars) in my
branch.
Upon
maturity, I sent a routine
notification to his forwarding address but
got no reply. After a
month, we
sent a reminder and finally we discovered
from his contract employers,

Nigerian National Petroleum Corporation that
Mr. Nelly Cole died
from an
automobile accident. On further investigation,
I found out that he
did not
leave a WILL and all attempts to trace his
next of kin were
fruitless. I
therefore made further investigation and
discovered that Mr. Nelly Co

le did
not declare any next of kin n all his official documents, including

his Bank
Deposit paperwork. This sum of US\$25,000,000.00 is still sitting
in
the Bank
and the interest is being rolled over with the principal sum
at the
end of
each year. No one will come forward to claim it. According
to the
Nigerian
Law, at the expiration of 6 (six) years, the money will
revert to the

ownership of the Nigerian Government if nobody applies to
claim the
funds.
Consequently, my proposal is that I will like you as a
foreigner to
stand in
as the next of kin to Mr. Nelly Cole so that the
fruits of this old
man's
labor will not get into the hands of some corrupt
officials. This is
simple
I will like you to provide me immediately with
your full names and
address
so that the attorney will prepare the
necessary documents and
affidavits,
which will put you in place as the
next of kin. We shall employ th

e
services
of two attorneys for drafting and notarization of the WILL and
obtain
the
necessary documents and letter of probate/administration in
your
favor the
transfer. A bank account in any part of the world, which
you provide,
will
then facilitate the transfer of this money to you as the

beneficiary/next of
kin. The money will be paid into your account for us
to share in the
ratio
of that we will both agreed upon. There is no risk
at all as all the
paperwork
for this transaction will be done by the
attorney and my position as
the
Branch Manager guarantees the successful
execution of this
transaction. If
you are interested, please reply
immediately via email. Upon your
response,
I shall then provide you with
more details and relevant documents
that will
help you understand. Please
observe utmost confidentiality, and rest
assured
that this transaction
would be most profitable for

both of us because
I shall require your assistance to invest my share in
your country.
Awaiting your urgent reply via email:

Best regards,

Abiola George. </DIV></TD></TR></TBODY></TABLE></div></TD></TR></TABLE>

--=_NextPart_Lycos_0310031046252211_ID--

From bounce-message-11589@lists.tappr.org Wed Feb 26 03:37:32 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id DAA25174
for <lyris.aprsspec@tappr.org>; Wed, 26 Feb 2003 03:37:32 -0600 (CST)
Message-Id: <LYR11589-122117-2003.02.26-04.25.59--
lyris.aprsspec#tappr.org@lists.tappr.org>
X-Lyris-Type: unsub-conf-req
From: Lyris <unsubscribe-confirm@lists.tappr.org>
Reply-To: Lyris <unsubscribe-confirm@lists.tappr.org>
To: lyris.aprsspec@tappr.org
Subject: Your confirmation is needed (ok 11589)
Date: Wed, 26 Feb 2003 04:25:59 -0500

Your email address 'lyris.aprsspec@tappr.org' has been submitted to be
unsubscribed from the 'aprsspec' mailing list.

This unsubscribe command requires your confirmation that you want to be
unsubscribed.

To confirm that you do want to unsubscribe, reply to this message so that
the words "ok 11589" appear somewhere on the subject line.

Make sure that your reply message is addressed to
unsubscribe-confirm@lists.tappr.org

You will receive notification that your confirmation has been received, and
that you have been unsubscribed.

If you do not want to unsubscribe, do nothing. You will be kept on the
mailing list.

Return-Path: <ben.abugu@lycos.co.uk>
Received: from lmout01.st1.spray.net ([212.78.202.120]) by lists.tappr.org with
SMTP (Lyris Server version 3.0); Wed, 26 Feb 2003 04:25:46 -0500
Received: from lycos.co.uk (pu62.st1.spray.net [212.78.202.57])
by lmout01.st1.spray.net (Postfix) with SMTP
id DD30B205B9; Wed, 26 Feb 2003 10:37:12 +0100 (MET)
From: ben abugu <ben.abugu@lycos.co.uk>

To: aprsspec-request
Message-ID: <1046252211031003@lycos-europe.com>
X-Mailer: LycosMail
X-Originating-IP: [216.139.176.157]
Mime-Version: 1.0
Subject:
Date: Wed, 26 Feb 2003 10:36:51 +0100
Content-Type: multipart/mixed; boundary="=_NextPart_Lycos_0310031046252211_ID"

Mail sent to leave-aprsspec-11589p was converted to these commands:
unsubscribe aprsspec lyris.aprsspec@tapr.org confirm
end

This is the text of the message that triggered the action:

Return-Path: <ben.abugu@lycos.co.uk>
Received: from lmout01.st1.spray.net ([212.78.202.120]) by lists.tapr.org with SMTP (Lyris Server version 3.0); Wed, 26 Feb 2003 04:25:46 -0500
Received: from lycos.co.uk (pu62.st1.spray.net [212.78.202.57])
by lmout01.st1.spray.net (Postfix) with SMTP
id DD30B205B9; Wed, 26 Feb 2003 10:37:12 +0100 (MET)
From: ben abugu <ben.abugu@lycos.co.uk>
To: ben.abugu@lycos.co.uk
Message-ID: <1046252211031003@lycos-europe.com>
X-Mailer: LycosMail
X-Originating-IP: [216.139.176.157]
Mime-Version: 1.0
Subject: Attn: Contact
Date: Wed, 26 Feb 2003 10:36:51 +0100
Content-Type: multipart/mixed; boundary="=_NextPart_Lycos_0310031046252211_ID"

This message is in MIME format. Since your mail reader does not understand this format, some or all of this message may not be legible.

--=_NextPart_Lycos_0310031046252211_ID
Content-Type: text/html; charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

<STYLE>TABLE.mail_content {DISPLAY: block}</STYLE><TABLE width="440" height="300"
Class="mail_content" ALIGN="CENTER"><TR><TD VALIGN="TOP"
style="position:relative;"><div>
<STYLE>TABLE.mail_content {DISPLAY: block}</STYLE>

<TABLE align=center class=mail_content height=300 width=440>
<TBODY>
<TR>

<TD style="POSITION: relative" vAlign=top>

<DIV>Dear Friend,

I am MR ABIOLA GEORGE, Bank Manager of ORIENT BANK OF

NIGERIA, Lagos
Branch. I
have urgent and very confidential business proposition for you. On
June 6
1997, an American oil consultant/contractor with the Nigerian National

Petroleum Corporation, Mr. Nelly Cole made a numbered time (Fixed)
deposited for twelve calendar months, valued at US\$25,000,000.00
(TWENTY FIVE Million United States Dollars) in my
branch. Upon
maturity, I sent a routine
notification to his forwarding address but got no reply. After a
month, we
sent a reminder and finally we discovered from his contract employers,

Nigerian National Petroleum Corporation that Mr. Nelly Cole died
from an
automobile accident. On further investigation, I found out that he
did not
leave a WILL and all attempts to trace his next of kin were
fruitless. I
therefore made further investigation and discovered that Mr. Nelly Co

le did
not declare any next of kin n all his official documents, including
his Bank
Deposit paperwork. This sum of US\$25,000,000.00 is still sitting in
the Bank
and the interest is being rolled over with the principal sum at the
end of
each year. No one will come forward to claim it. According to the
Nigerian
Law, at the expiration of 6 (six) years, the money will revert to the

ownership of the Nigerian Government if nobody applies to claim the
funds.
Consequently, my proposal is that I will like you as a foreigner to
stand in
as the next of kin to Mr. Nelly Cole so that the fruits of this old
man's
labor will not get into the hands of some corrupt officials. This is
simple
I will like you to provide me immediately with your full names and
address
so that the attorney will prepare the necessary documents and
affidavits,
which will put you in place as the next of kin. We shall employ th

e
services
of two attorneys for drafting and notarization of the WILL and obtain
the
necessary documents and letter of probate/administration in your
favor the
transfer. A bank account in any part of the world, which you provide,
will
then facilitate the transfer of this money to you as the
beneficiary/next of
kin. The money will be paid into your account for us to share in the
ratio
of that we will both agreed upon. There is no risk at all as all the
paperwork
for this transaction will be done by the attorney and my position as
the
Branch Manager guarantees the successful execution of this
transaction. If
you are interested, please reply immediately via email. Upon your
response,
I shall then provide you with more details and relevant documents
that will
help you understand. Please observe utmost confidentiality, and rest
assured
that this transaction would be most profitable for

both of us because
I shall require your assistance to invest my share in your country.
Awaiting your urgent reply via email:

Best regards,
Abiola George. </DIV></TD></TR></TBODY></TABLE></div></TD></TR></TABLE>

--=_NextPart_Lycos_0310031046252211_ID--

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 2 17:57:16 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id RAA03766
for <lyris.aprsspec@tapr.org>; Sun, 2 Mar 2003 17:57:11 -0600 (CST)
Date: Sun, 02 Mar 2003 18:40:34 -0500
From: John Ackermann N8UR <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] TAPR Monthly Update
Message-ID: <LYR11589-122844-2003.03.02-18.43.09--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
X-Spam-Status: No, hits=-1.4 required=5.0
tests=BALANCE_FOR_LONG,ONLY_COST,SPAM_PHRASE_03_05,SUBJECT_FREQ
version=2.43
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: John Ackermann N8UR <jra@febo.com>
X-Message-Id: <66510000.1046648434@[192.168.1.1]>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

(Sent on behalf of Darryl, VK2TDS, TAPR Membership Director -- <mailto:vk2tds@tapr.org>)

People

TAPR Membership

Running TAPR takes resources, and as a non-profit organisation we rely on members for part of our funding. If you support the work that TAPR is doing, we would welcome your membership of the organisation. You can join by clicking on <http://www.tapr.org/tapr/html/orgf.html> . We have also been listening to members requesting that we support electronic commerce. TAPR are currently testing the use of PayPal in association with the current ordering system on the Web. We will post a message on the WWW site as soon as this is available.

Until then you can still join. Just fill out the electronic form as normal, and state in the comments that you want to pay with PayPal when it is available.

Digital Communications Conference

This years DCC will take place at the Hartford/Windsor Marriott Airport Hotel in Windsor, Connecticut, on the weekend of September 19-21, 2003. The hotel is 6 miles south of Bradley International Airport (BDL) and 13 miles north of ARRL Headquarters in Newington. Information will soon be available on <http://www.tapr.org/tapr/html/conff.html>. Until then you can find more information in the PSR at ftp://ftp.tapr.org/psr/Winter_86_2003.pdf

We will soon be issueing a call for papers for this event. Have a think about what you want to write about and start planning your paper now. If you are unable to come up with a subject, it is often possible to find friends with something to write about, but who don't have the time. You can help your friend and the Ham community by writing the paper on their behalf. There will be two popular discussion points at the conference - Software Defined Radios and 802.11 networks.

DCC Conference Proceedings

We have also reduced the price of each of the proceedings of the DCC up until 1997 to only US\$6 each. This makes the a real bargain. We are also making available sets of volume 1-10 and 11-16 available for \$US\$33 each - but please bear in mind that we no longer have copies of a number of the proceedings so we cannot guarenttee that the sets will be complete.

Electronic Distribution of Packet Status Register (PSR) Magazine

Listening to members we have found that many people are concerned about missing out on the PSR now that it has gone electronic. We recognise this as an issue, and we have come up with a solution to make things a bit easier in this digital age. We have created two mailing lists to assist you with keeping up to date with the quarterly magazine. They are

PSR-Announce
PSR-PDF

PSR-Announce is designed to advise the availability of the PDF file for download. We recognise that many people are on slow internet connections at home, or in fact have to pay for their bandwidth. So we have created a mailing list just to tell you when the magazine comes out, and to let you know how to get it. You can subscribe by visiting http://www.tapr.org/cgi-bin/lyris.pl?enter=psr-announce&text_mode=0

PSR-PDF is designed for people who have a faster internet connection, or

who know that they will never get to read it unless it is sent directly to them. Since PSR often contains graphics, the file can be over one mByte. You can subscribe by clicking
http://www.tapr.org/cgi-bin/lyris.pl?enter=psr-pdf&text_mode=0

802.11 Mailing List

Whilst we are on the subject of mailing list, TAPR have started a mailing list for 802.11 'Wireless Internet' operations. It seems that every community has a mailing list dedicated to 802.11. So how is the TAPR one different? It is dedicated to 802.11 use in ham radio. The list contains active members of the entire range of technical ability - from the most basic understanding of how radio works, to the deep internals of this equipment. Such a broad range that everyone is sure to fit in. You can join by visting
http://www.tapr.org/cgi-bin/lyris.pl?enter=ham-80211&text_mode=0

GNUradio receives HDTV

Matt Etus and the other people at the GNUradio project have announced that they have managed to decode the HDTV data stream on their PC's and have published the source code online. This is an amazing feat by Matt and the team. They are not quite to the stage of real time HDTV decoding on a PC, but are close.

Write for PSR!!!

PSR needs articles, and we would love to publish lots more in the PSR magazine. PSR is a great place to publish articles on everything from local operating practices to deep technical papers. And since the last issue TAPR is now rewarding those people who are helping others by writing articles for the magazine. Following the last issue, six people had their memberships extended by three months. This is just a small thank you from us at TAPR to those people who help us out. More details on PSR can be found on www.tapr.org

Conclusion

I hope you have found this document informative and useful. TAPR is always looking for new things to do and how to improve what it is already doing. If you have any ideas or concerns, please email me on darryl@radio-active.net.au

Darryl

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 15 04:58:07 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id EAA10511
for <lyris.aprsspec@tapr.org>; Sat, 15 Mar 2003 04:58:04 -0600 (CST)
Message-ID: <LYR11589-124529-2003.03.15-05.47.08--
lyris.aprsspec@tapr.org>
Date: Sat, 15 Mar 2003 05:53:39 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Clarification of User Defined Data
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E730633.745666DF@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Can UDD begin anywhere in the comment field, or must the comment field begin with a "{"? I can't seem to find the information on this in the spec.

ie- Is this valid: "[FM29AC]{{XABCDEFGHIJKL"

Also...what UDD's have been assigned already?

Ev, W2EV

--

What's cool in Amateur Radio?
<http://www.BEACONet.org> or join the on-line community by
sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 15 06:34:30 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id GAA13316
for <lyris.aprsspec@tapr.org>; Sat, 15 Mar 2003 06:34:29 -0600 (CST)
Date: Sat, 15 Mar 2003 07:34:05 -0500
From: kb2scs@optonline.net
Subject: [aprsspec] Re: Clarification of User Defined Data
<LYR31382-124529-2003.03.15-05.47.08--kb2scs#optonline.net@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Reply-to: kb2scs@optonline.net
Message-id: <LYR11589-124533-2003.03.15-07.23.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body
Priority: normal
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <3E72D76D.28999.19E0C3@localhost>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Ev

I believe that the { has to be the first character of the UI
frame data payload. The { is an APRS data type identifier. Just like
the @ has to be the first character.

At least I hope that the above is correct or we in the APRS phrasing
world would have yet another "special" case to handel.

To my knowledge the ! character is the only APRS data type
identifier that can be any where up to the 40 th character in the
payload. Net node stations have a portion of their beacon text that
can not be changed by their sysop. So the ! ends up at the end of
their "canned" beacon text.

On 15 Mar 2003 at 5:53, Ev Tupis (W2EV) wrote:

> Can UDD begin anywhere in the comment field, or must the comment field begin
> with a "{"? I can't seem to find the information on this in the spec.
>
> ie- Is this valid: "[FM29AC]{{XABCDEFGHijkl"
>
> Also...what UDD's have been assigned already?
>
> Ev, W2EV
> --
> What's cool in Amateur Radio?
> <http://www.BEACONet.org> or join the on-line community by
> sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

Let us hope we never witness the "Silence Of The Hams"

73 DE John KB2SCS

Mail To: kb2scs@wa2pnu.#nli.ny.usa.noam

E-Mail: kb2scs@arrl.net

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 15 07:55:02 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id HAA15922
for <lyris.aprsspec@tapr.org>; Sat, 15 Mar 2003 07:55:01 -0600 (CST)
Date: Sat, 15 Mar 2003 08:54:46 -0500
From: Steve Dimse <k4hg@tapr.org>
Subject: [aprsspec] Re: Clarification of User Defined Data
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
X-Priority: 3
In-Reply-To: <LYR32070-124529-2003.03.15-05.47.08--k4hg#tapr.org@lists.tapr.org>
Message-ID: <LYR11589-124537-2003.03.15-08.44.09--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; Charset=US-ASCII
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Steve Dimse <k4hg@tapr.org>

X-Message-Id: <r01050300-1024-AEB6615756ED11D7B681000393DB395A@[192.168.2.146]>
Sender: bounce-aprsspec-11589@lists.taprr.org
Precedence: bulk

On 3/15/03 at 5:53 AM w2ev@arrl.net (Ev Tupis (W2EV)) sent:

>Can UDD begin anywhere in the comment field, or must the comment field begin
>with a "{"? I can't seem to find the information on this in the spec.

>

It is in there, though perhaps you are not familiar with the terms:

The data in the AX.25 Information field consists of a three-character header:
{ APRS Data Type Identifier.
U A one-character User ID.
X A one-character user-defined packet type.

By definition, the APRS type identifier must be the first character of the
payload.

>ie- Is this valid: "[FM29AC]{{XABCDEFGHIJKL"

>

>Also...what UDD's have been assigned already?

>

I don't think any have officially been assigned, if I'm wrong, perhaps Bob can
post a list. I know at least one person has claimed to have tried to get one
registered and when that failed just began using what he wanted.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@taprr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org
Questions regarding the SIG go to the SIG administrator: wallou@taprr.org

From bounce-aprsspec-11589@lists.taprr.org Sat Mar 15 08:43:07 2003
Received: from lists.taprr.org (lists.taprr.org [204.17.217.24])
by taprr.org (8.9.3/8.9.3/1.16) with SMTP id IAA17640
for <lyris.aprsspec@taprr.org>; Sat, 15 Mar 2003 08:42:59 -0600 (CST)
Message-ID: <LYR11589-124544-2003.03.15-09.32.02--
lyris.aprsspec#taprr.org@lists.taprr.org>
Date: Sat, 15 Mar 2003 09:38:17 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Clarification of User Defined Data
References: <LYR30253-124537-2003.03.15-08.44.09--w2ev#arrl.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyrus Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E733AD9.869547DF@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Thanks for the help, Steve and John. It appears that, when the spec says, "consists of a three-character header", the inference is that it is a header to the AX.25 comment-field field (like ">") as opposed to a header to a comment-field embedded UDD Field (like PHG). Not having the pleasure of having to write a parser for others, I had no experience against which to draw to get to the right conclusion.

I appreciate your clarification, guys. Thank you.

So...on to a task at hand (one that seems to elude me like a mirage as it is approached)...

Can anyone think of how I can preserve the Grid-in-Comment posit along with carrying User Defined Data? An example that works in UI-VIEW is shown below, but it apparently violates the spec on UDD:

W2EV-10>CQ,FLOOD,HOP2-2,RFONLY:>FN03XDH#{Yzabcdefghijklmnopkl

Ev, W2EV

PS - I'm looking for the ability to launch a frame that conforms to the APRS spec, but that will also fit the needs of the BEACONet community:

- o as short as possible (this is top priority)
- o use of 6-character gridsquare
- o ability to be treated as an ALTNET 100% of the time by APRS stations
- o able to encode UDD in the form of a BEACONet Configuration Code (a more robust PHG system)

--

What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by
sending a blank eMail to: BEACONet-subscribe@yahoo.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 15 08:48:13 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id IAA17731
for <lyris.aprsspec@tapr.org>; Sat, 15 Mar 2003 08:48:09 -0600 (CST)
Date: Sat, 15 Mar 2003 09:47:57 -0500
From: Steve Dimse <k4hg@tapr.org>
Subject: [aprsspec] Re: Clarification of User Defined Data
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
X-Priority: 3
In-Reply-To: <LYR32070-124544-2003.03.15-09.32.02--k4hg#tapr.org@lists.tapr.org>
Message-ID: <LYR11589-124545-2003.03.15-09.37.18--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; Charset=US-ASCII
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Steve Dimse <k4hg@tapr.org>
X-Message-Id: <[r01050300-1024-1C5C50E256F511D7B681000393DB395A@\[192.168.2.146\]](mailto:r01050300-1024-1C5C50E256F511D7B681000393DB395A@[192.168.2.146])>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On 3/15/03 at 9:38 AM w2ev@arrl.net (Ev Tupis (W2EV)) sent:

>Can anyone think of how I can preserve the Grid-in-Comment posit along with
>carrying User Defined Data? An example that works in UI-VIew is shown below,
>but it apparently violates the spec on UDD:

>

>W2EV-10>CQ,FLOOD,HOP2-2,RFONLY:>FN03XDH#{YZabcdefghijklmnop}

>

Actually, there is nothing wrong with this, anything that comes after the grid is up to the user. The difference is that none of the tools written for user defined format will work on this. Of course, those tools are few and far between now, findU does parse them into a table, but does nothing with it as of yet.

Steve K4HG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Mar 15 19:49:08 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA13226
for <lyris.aprsspec@tapr.org>; Sat, 15 Mar 2003 19:49:06 -0600 (CST)
Message-ID: <LYR11589-124625-2003.03.15-20.38.05--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 15 Mar 2003 20:43:08 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Clarification of User Defined Data
References: <LYR30253-124545-2003.03.15-09.37.18--w2ev@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E73D6AC.68968A4F@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Steve Dimse wrote:

> (Ev Tupis (W2EV)) sent:

>

> >Can anyone think of how I can preserve the Grid-in-Comment posit along with
> >carrying User Defined Data? An example that works in UI-View is shown below,
> >but it apparently violates the spec on UDD:

> >

> >W2EV-10>CQ,FLOOD,HOP2-2,RFONLY:>FN03XDH#{YZabcdefgghijkl

> >

> Actually, there is nothing wrong with this, anything that comes after the grid
> is up to the user. The difference is that none of the tools written for user
> defined format will work on this. Of course, those tools are few and far between
> now, findU does parse them into a table, but does nothing with it as of yet.

Just to be clear...it appears that what I'm suggesting does not follow the APRS
spec, yet is a "special case" that would cause no problems if used. The big
question is: Bob? Do you agree that this is allowed and should be supported?

Nothing happens in the world of APRS without your official blessing. :o)

Ev, W2EV

--

What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by
sending a blank eMail to: BEACONet-subscribe@yahoo.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 05:37:15 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id FAA02720
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 05:37:15 -0600 (CST)
Message-ID: <LYR11589-124750-2003.03.17-06.25.55--
lyris.aprsspec@lists.tapr.org>
Date: Mon, 17 Mar 2003 06:31:45 -0500
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Bob, your thoughts? [was: Clarification of User Defined Data]
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E75B221.B15C69B5@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Hi Bob,

I hadn't seen your reply to this on the APRSspec list, though you haven't commented on the APRS list either so may be a bit distracted with the events of the world around us these days. When you have a moment to consider the info below, would you mind commenting on it? It's in chronological order, top-to-bottom for an easier read.

It isn't necessarily a direction that I want to pursue yet (it still adds 5

bytes [some 15% or so] of useless info, but it's a start), but before I knock myself out considering it seriously, I thought I'd ask.

The two affected frames are shown below, as an fyi:

W2EV-10>CQ, FLOOD, HOP2-2, RFONLY:>FN03XDH#f{YZabcdefg

W2EV-10>CQ:>FN03XDH#f{YZabcdefg^ABCD

Regards,

Ev Tupis, W2EV

----- Original Message -----

Subject: [aprsspec] Re: Clarification of User Defined Data

Date: Sat, 15 Mar 2003 20:43:08 -0500

From: "Ev Tupis (W2EV)" <w2ev@arrl.net>

To: APRS Spec Discussion List <aprsspec@lists.tapir.org>

Steve Dimse wrote:

> (Ev Tupis (W2EV)) sent:

>

> >Can anyone think of how I can preserve the Grid-in-Comment posit along with
> >carrying User Defined Data? An example that works in UI-View is shown below,
> >but it apparently violates the spec on UDD:

> >

> >W2EV-10>CQ, FLOOD, HOP2-2, RFONLY:>FN03XDH#f{YZabcdefg

> >

> Actually, there is nothing wrong with this, anything that comes after the grid
> is up to the user. The difference is that none of the tools written for user
> defined format will work on this. Of course, those tools are few and far between
> now, findU does parse them into a table, but does nothing with it as of yet.

Just to be clear...it appears that what I'm suggesting does not follow the APRS spec, yet is a "special case" that would cause no problems if used. The big question is: Bob? Do you agree that this is allowed and should be supported? Nothing happens in the world of APRS without your official blessing. :o)

Ev, W2EV

--

What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by

sending a blank eMail to: BEACONet-subscribe@yahoo.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 17 08:34:53 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id IAA08855
for <lyris.aprsspec@tappr.org>; Mon, 17 Mar 2003 08:34:50 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Mar 2003 09:34:32 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec eMail Remailer <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Bob, your thoughts? [was: Clarification of User Defined Data]
In-Reply-To: <3E75B221.B15C69B5@arrl.net>
Message-ID: <LYR11589-124764-2003.03.17-09.24.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303170932420.771-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Mon, 17 Mar 2003, Ev Tupis (W2EV) wrote:

> Hi Bob, I hadn't seen your reply to this on the APRSspec list, though
> you haven't commented on the APRS list either so may be a bit distracted
> with the events of the world around us these days. When you have a
> moment to consider the info below, would you mind commenting on it?
> It's in chronological order, top-to-bottom for an easier read.

Was in Orlando for 24 hours with ARISS team tring to define D7600 for
ARISS on ISS and have to deliver PCSAT 2 in 2 weeks. WOrkign every
minute of day on deadlines...

>
> It isn't necessarily a direction that I want to pursue yet (it still adds 5
> bytes [some 15% or so] of useless info, but it's a start), but before I knock
> myself out considering it seriously, I thought I'd ask.
>
> The two affected frames are shown below, as an fyi:
> W2EV-10>CQ, FLOOD, HOP2-2, RFONLY:>FN03XDH#f{YZabcdefg
> W2EV-10>CQ:>FN03XDH#f{YZabcdefg^ABCD

But anything in the coment field after the Grid square is OK and will not break anything. Then all you have to do is convince other authors to decode it if they want...

Bob

```
> > Regards,
> Ev Tupis, W2EV
>
> ----- Original Message -----
> Subject: [aprsspec] Re: Clarification of User Defined Data
> Date: Sat, 15 Mar 2003 20:43:08 -0500
> From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
> To: APRS Spec Discussion List <aprsspec@lists.tapir.org>
>
> Steve Dimse wrote:
> > (Ev Tupis (W2EV)) sent:
> >
> > >Can anyone think of how I can preserve the Grid-in-Comment posit along with
> > >carrying User Defined Data? An example that works in UI-VIEW is shown below,
> > >but it apparently violates the spec on UDD:
> > >
> > >W2EV-10>CQ, FLOOD, HOP2-2, RFONLY:>FN03XDH#<{YZabcdefg
> > >
> > Actually, there is nothing wrong with this, anything that comes after the grid
> > is up to the user. The difference is that none of the tools written for user
> > defined format will work on this. Of course, those tools are few and far
between
> > now, findU does parse them into a table, but does nothing with it as of yet.
>
> Just to be clear...it appears that what I'm suggesting does not follow the APRS
> spec, yet is a "special case" that would cause no problems if used. The big
> question is: Bob? Do you agree that this is allowed and should be supported?
> Nothing happens in the world of APRS without your official blessing. :o)
>
> Ev, W2EV
>
> --
> What's cool in Amateur Radio?
> http://www.BEACONet.org or join the on-line community by
> sending a blank eMail to: BEACONet-subscribe@yahooogroups.com
>
```

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html

APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://ssdl.stanford.edu/mims/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 14:51:37 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA28347
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 14:51:32 -0600 (CST)

From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] NMEA recommended sentences for APRS stations
Date: Tue, 18 Mar 2003 07:50:16 +1100
Message-ID: <LYR11589-124792-2003.03.17-15.40.41--
lyris.aprsspec@tapr.org>

MIME-Version: 1.0

Content-Type: text/plain;
charset="US-ASCII"

Content-Transfer-Encoding: 7bit

X-Priority: 3 (Normal)

X-MSMail-Priority: Normal

Importance: Normal

X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106

X-Spam-Score: 0.0 (/)

X-Spam-Flag: NO

X-Spam-Report: SPAM: ----- Start SpamAssassin results

SPAM: This mail is probably spam. The original message has been altered

SPAM: so you can recognise or block similar unwanted mail in future.

SPAM: See <http://spamassassin.org/tag/> for more details.

SPAM:

SPAM: Content analysis details: (0 hits, 5 required)

SPAM:

SPAM: ----- End of SpamAssassin results -----

X-Scanner: exiscan for exim4 (<http://duncanthrax.net/exiscan/>)

*18v1ZY-000062-00*ZYY948.4IX6*

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>

X-Message-Id: <007a01c2ecc6\$d37c65a0\$8504a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

People

I have a copy of the 1.0 spec (and this could have changed but I doubt it) and one of the recommended decoded APRS strings is \$GPWPT. I would like to suggest that this is removed from the recommendations on the last page of chapter 6. I have ****NEVER**** seed this packet sent on air...

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Mon Mar 17 18:52:36 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id SAA09051
for <lyris.aprsspec@tappr.org>; Mon, 17 Mar 2003 18:52:36 -0600 (CST)
Message-ID: <LYR11589-124818-2003.03.17-19.41.14--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "B. Hildebrand" <bhildebrand@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR11585-124792-2003.03.17-15.40.41--
bhildebrand#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
Date: Mon, 17 Mar 2003 16:50:50 -0800
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2600.0000
X-ELNK-Trace:
ea409b41e26e1177c5707837c924208f9ef193a6bfc3dd48bd0a9c1e3d56a8591476aa682421b0ab66
7c3043c0873f7e350badd9bab72f9c350badd9bab72f9c

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "B. Hildebrand" <bhildebrand@earthlink.net>
X-Message-Id: <001c01c2ece8\$6f3669c0\$20dcfea9@Thinkpad>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

GPWPT is can be sent to a GPS receiver to create a waypoint, and thus a display of APRS positions. I suspect it is not often on the air, true. But it is used by the Kenwood D7/D700 and other programs in APRS. Brent KH2Z

----- Original Message -----

From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Sent: Monday, March 17, 2003 12:50 PM
Subject: [aprsspec] NMEA recommended sentences for APRS stations

> People
>
> I have a copy of the 1.0 spec (and this could have changed but I doubt
> it) and one of the recommended decoded APRS strings is \$GPWPT. I would
> like to suggest that this is removed from the recommendations on the
> last page of chapter 6. I have **NEVER** seed this packet sent on air...
>
> Darryl
>
> -----
> Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au
>
>
>
> ---
> You are currently subscribed to aprsspec as: bhildebrand@earthlink.net
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 19:15:04 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA09925
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 19:15:02 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Mon, 17 Mar 2003 17:14:00 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR29682-124818-2003.03.17-19.41.14--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-124822-2003.03.17-20.04.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 18 Mar 2003 01:14:02.0496 (UTC)
FILETIME=[A97F5800:01C2ECEB]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0303171712560.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 17 Mar 2003, B. Hildebrand wrote:

> GPWPT is can be sent to a GPS receiver to create a waypoint, and thus a
> display of APRS positions. I suspect it is not often on the air, true. But
> it is used by the Kenwood D7/D700 and other programs in APRS. Brent KH2Z

Xastir uses "GPWPL". No "GPWPT" listed in the sources.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 19:39:23 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA10499
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 19:39:22 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Mar 2003 20:38:37 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR11586-124792-2003.03.17-15.40.41--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-124825-2003.03.17-20.28.35--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0303172035130.4343-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Mar 2003, Darryl Smith wrote:

> ...and one of the recommended decoded APRS strings is \$GPWPT. I would
> like to suggest that this is removed from the recommendations on the
> last page of chapter 6. I have **NEVER** seed this packet sent on air...

There is a very important reason for that to be in there. It is so you
can send POSITION data to anyone with only a TNC and GPS! It lets
a TRACKER built from just a TNC and GPS to display POSITION data
(sent in Waypoint format) to be displayed on the GPS map. Thus, you can
send POSIT data to Search teams or anyone using their GPS as the display.

There are many many features in APRS that "most people" never use and not
seeing them on the air, does not make them any less valuable... to the

person that does need it...

Bob

de WB4APR@amsat.org, Bob

PCsat WEB page	http://www.ew.usna.edu/~bruninga/pcsat.html
ISS-APRS FAQ:	http://www.ew.usna.edu/~bruninga/iss-faq.html
CUBESAT Designs	http://www.ew.usna.edu/~bruninga/cubesat.html
APRS LIVE pages	http://www.ew.usna.edu/~bruninga/aprs.html
APRS SATELLITES	http://www.ew.usna.edu/~bruninga/astars.html
MIM/Mic-E/Mic-Lite	http://ssdl.stanford.edu/mims/

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 19:46:46 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA10631
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 19:46:41 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 17 Mar 2003 20:46:21 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR11586-124822-2003.03.17-20.04.02--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-124827-2003.03.17-20.35.53--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303172045590.4343-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Mon, 17 Mar 2003, Curt Mills, WE7U wrote:

> On Mon, 17 Mar 2003, B. Hildebrand wrote:

>

> > GPWPT is can be sent to a GPS receiver to create a waypoint, and thus a
> > display of APRS positions. I suspect it is not often on the air, true. But
> > it is used by the Kenwood D7/D700 and other programs in APRS. Brent KH2Z

>

> Xastir uses "GPWPL". No "GPWPT" listed in the sources.

Ah, are we talking a typo here in the spec?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Mar 17 20:24:30 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id UAA11969
for <lyris.aprsspec@tapr.org>; Mon, 17 Mar 2003 20:24:25 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
Date: Tue, 18 Mar 2003 13:22:56 +1100
Message-ID: <LYR11589-124832-2003.03.17-21.13.43--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <Pine.GSO.4.44.0303172035130.4343-100000@arctic>
X-Spam-Score: -3.4 (---)
X-Spam-Flag: NO
X-Spam-Report: SPAM: ----- Start SpamAssassin results

SPAM: This mail is probably spam. The original message has been altered
SPAM: so you can recognise or block similar unwanted mail in future.
SPAM: See <http://spamassassin.org/tag/> for more details.

SPAM:

SPAM: Content analysis details: (-3.4 hits, 5 required)

SPAM: IN_REP_TO (-3.4 points) Found a In-Reply-To header

SPAM:

SPAM: ----- End of SpamAssassin results -----

X-Scanner: exiscan for exim4 (<http://duncanthrax.net/exiscan/>)

*18v6li-0000aS-00*1S4/W325dZI*

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>

X-Message-Id: <000501c2ecf5\$4c4aac20\$4601a8c0@DELL8000>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

I am not saying that it would not be useful, but I would not suggest that this is a sentence that ****SHOULD**** be implemented in all software.

With my AntiTracker you can do the same thing, decoding normal APRS off air and sending it to a GPS receiver... But that is more hardware.

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia

Mobile Number 0412 929 634 [+61 4 12 929 634 International]

Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 00:42:08 2003

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.16) with SMTP id AAA23498

for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 00:42:07 -0600 (CST)

X-Authentication-Warning: gatekeeper.we7u.net: archer owned process doing -bs

Date: Mon, 17 Mar 2003 23:01:59 -0800 (PST)

From: "Curt Mills, WE7U" <archer@eskimo.com>

X-Sender: archer@gatekeeper.we7u.net

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR29683-124827-2003.03.17-20.35.53--
archer#eskimo.com@lists.tapir.org>
Message-ID: <LYR11589-124857-2003.03.18-01.30.50--
lyris.aprsspec#tapir.org@lists.tapir.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapir.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapir.org>
List-Owner: <mailto:owner-aprsspec@lists.tapir.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapir.org>
Reply-To: "Curt Mills, WE7U" <archer@eskimo.com>
X-Message-Id: <Pine.LNX.4.04.10303172301270.3493-1000000@gatekeeper.we7u.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

On Mon, 17 Mar 2003, Bob Bruninga wrote:

> > Xastir uses "GPWPL". No "GPWPT" listed in the sources.
>
> Ah, are we talking a typo here in the spec?

Sure looks that way. Another for the errata page.

Curt, WE7U. archer@eskimo.com
<http://www.eskimo.com/~archer>
Lotto: A tax on people who are bad at math. - unknown
Windows: Microsoft's tax on computer illiterates. - WE7U.
The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

From bounce-aprsspec-11589@lists.tapir.org Tue Mar 18 07:35:09 2003
Received: from lists.tapir.org (lists.tapir.org [204.17.217.24])
by tapir.org (8.9.3/8.9.3/1.16) with SMTP id HAA07269
for <lyris.aprsspec@tapir.org>; Tue, 18 Mar 2003 07:35:07 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Mar 2003 08:34:39 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapir.org>
cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapir.org>

Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
In-Reply-To: <000501c2ecf5\$4c4aac20\$4601a8c0@DELL8000>
Message-ID: <LYR11589-124876-2003.03.18-08.24.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303180832340.1656-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Mar 2003, Darryl Smith wrote:

> I am not saying that it would not be useful, but I would not suggest
> that this is a sentence that ****SHOULD**** be implemented in all software.

But if stations are using WAYPOINT format to send OBJECTS in your event,
it is essential that ALL participating stations see the same thing. Thus
all APRS stations are expected to decode the WAYPOINT format as an object
and place it on the map.

TO not implement it means an incomplete APRS implementation that destroys
the integrity of the standardization of APRS.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 07:49:38 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id HAA07652
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 07:49:35 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-124877-2003.03.18-08.38.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 18 Mar 2003 08:46:20 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Mark Sproul <msproul@jove.rutgers.edu>
X-Message-Id: <a05111b00ba9cd2904a0e@[128.6.238.130]>
<LYR11591-124857-2003.03.18-01.30.50--kb2ici#amsat.org@lists.tapr.org>
<LYR11591-124857-2003.03.18-01.30.50--kb2ici#amsat.org@lists.tapr.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

No this is NOT a typo or a mistake.

Curt said that Xastir recognizes GPWPL which is ALSO a valid NEMA sentence. GPWPT is a separate sentence.

GPWPT is sent TO the GPS to display a waypoint

GPWPL is sent from the GPS, It is the DESTINATION that the GPS is currently going TO. For example, in my recent trip to Flordia, I would get the following every second

\$GPWPL,2830.242,N,08122.380,W,ORLANDO*03

This says that the GPS is currently in GOTO ORLANDO mode.

While GPWPT and GPWPL are related, they actually have entirely different meanings.

Mark

>On Mon, 17 Mar 2003, Bob Bruninga wrote:
>
> > Xastir uses "GPWPL". No "GPWPT" listed in the sources.
>>
>> Ah, are we talking a typo here in the spec?
>
>Sure looks that way. Another for the errata page.
>

--

Mark Sproul |
http://ecs.rutgers.edu |
msproul@jove.rutgers.edu |
Manager - Engineering Computing Services | 732-445-3121
Rutgers University School of Engineering |
Eng D111

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 11:26:42 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA16397
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 11:26:37 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 18 Mar 2003 09:25:46 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR29682-124877-2003.03.18-08.38.49--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-124889-2003.03.18-12.15.30--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 18 Mar 2003 17:25:48.0823 (UTC)
FILETIME=[6AC6CA70:01C2ED73]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0303180917320.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Mar 2003, Mark Sproul wrote:

> No this is NOT a typo or a mistake.
>

> Curt said that Xastir recognizes GPWPL which is ALSO a valid NEMA
> sentence. GPWPT is a separate sentence.

Actually I said (thought I said?) that Xastir sends the "GPWPL"
sentence _to_ a Garmin GPS in order to create a waypoint. Perhaps
we're doing something slightly different than intended? It works
though! We get waypoints created on the Garmin as we drive along,
just like a few other programs and the Kenwoods can do.

I'll have to get back into the specs again to read up on these two
sentences. GPWPT is one I haven't seen/used before. Doing a google
search shows only two hits for GPWPT, but many for GPWPL.

> GPWPT is sent TO the GPS to display a waypoint
>
> GPWPL is sent from the GPS, It is the DESTINATION that the GPS is
> currently going TO. For example, in my recent trip to Flordia, I
> would get the following every second
>
> \$GPWPL,2830.242,N,08122.380,W,ORLANDO*03
>
> This says that the GPS is currently in GOTO ORLANDO mode.
>
> While GPWPT and GPWPL are related, they actually have entirely
> different meanings.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 11:31:32 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA16784
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 11:31:31 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 18 Mar 2003 09:31:03 -0800 (PST)
From: Curt Mills <hacker@tc.fluke.com>

From: Curt Mills <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR29682-124890-2003.03.18-12.20.43--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-124891-2003.03.18-12.23.20--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 18 Mar 2003 17:33:36.0881 (UTC)
FILETIME=[81C2C610:01C2ED74]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Curt Mills <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0303180932440.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Mar 2003, Curt Mills wrote:

> On Tue, 18 Mar 2003, Curt Mills, WE7U wrote:
>
> Here's a site which states the TH-D7A sends GPWPL (like Xastir
> does). I don't own one, so can't test that:
>
> <http://www.hulleng.karoo.net/g0vrm/content/aprs/garmin.htm>

And another site which shows that the GPS outputs this sentence as
well, so it looks like a dual-use sentence:

<http://home.mira.net/~gnb/gps/nmea.html>

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com
Senior Methods Engineer/SysAdmin
"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 18 15:10:59 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id PAA26033
for <lyris.aprsspec@tappr.org>; Tue, 18 Mar 2003 15:10:53 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "'APRS Spec Discussion List'" <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
Date: Wed, 19 Mar 2003 08:09:00 +1100
Message-ID: <LYR11589-124917-2003.03.18-16.00.07--
lyris.aprsspec@tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
In-Reply-To: <Pine.GSO.4.44.0303180832340.1656-100000@arctic>
X-Spam-Score: -2.3 (--)
X-Spam-Flag: NO
X-Spam-Report: SPAM: ----- Start SpamAssassin results

SPAM: This mail is probably spam. The original message has been altered
SPAM: so you can recognise or block similar unwanted mail in future.
SPAM: See <http://spamassassin.org/tag/> for more details.
SPAM:
SPAM: Content analysis details: (-2.3 hits, 5 required)
SPAM: IN_REP_TO (-3.4 points) Found a In-Reply-To header
SPAM: DOUBLE_CAPSWORD (1.1 points) BODY: A word in all caps repeated on
the line
SPAM:
SPAM: ----- End of SpamAssassin results -----
X-Scanner: exiscan for exim4 (<http://duncanthrax.net/exiscan/>)
*18v0Ly-0003Jj-00*7evUhMo0f/.
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <004101c2ed92\$9c3878f0\$4601a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I think that there is a more fundamental issue here that I have uncovered. It is to determine a priority for decoding APRS... Basically what I see is that we could have a few different implementation types, because like it or not, not every author implements everything...

I know that many authors do not implement base-91 compressed. Others do not do GPWPL. Some do not do every \$GP sentence apart from \$GPWPL.

Right now APRS authors **SHOULD** implement base-91 compressed, and **SHOULD** implement GPWPL. Whilst these types are nice, they are not used very often, and at are often not worth the hassle of implementing. I know that in my AntiTracker decoder, built into a PIC, that I did not have space to implement either of these.

I think that we need to give some guidance to authors about what features are more critical than others, since I suspect that there is only one piece of software out there that implements the lot.

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@usna.edu]
Sent: Wednesday, 19 March 2003 12:35 AM
To: Darryl Smith
Cc: 'APRS Spec Discussion List'
Subject: RE: [aprsspec] NMEA recommended sentences for APRS stations

On Tue, 18 Mar 2003, Darryl Smith wrote:

> I am not saying that it would not be useful, but I would not suggest
> that this is a sentence that **SHOULD** be implemented in all
> software.

But if stations are using WAYPOINT format to send OBJECTS in your event, it is essential that ALL participating stations see the same thing. THUS all APRS stations are expected to decode the WAYPOINT format as an object and place it on the map.

TO not implement it means an incomplete APRS implementation that destroys the integrity of the standardization of APRS.

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 15:19:30 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA26218
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 15:19:25 -0600 (CST)
Message-ID: <LYR11589-124918-2003.03.18-16.08.40--
lyris.aprsspec#tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
Date: Tue, 18 Mar 2003 21:19:04 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE04102C88@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I really think the bloat added to the spec by features like this that are only used by 0.1% of the population is really not worth the small benefit it gives. Personally, I don't think we should be putting ANY NMEA sentences on the air. That was understandable when APRS was new and there wasn't much support for it. But with TinyTraks and Darryl's AntiTracker, there's not much point.

<obligatory plug>

The (still in-work) OpenTRAC protocol specifies exactly one position format. Like every other element, it's tagged, so you can extract it whether you understand any of the other elements or not. And the position format happens to be directly compatible with the Garmin 'semicircles' format, so an AntiTracker-type device connected to an eTrex, for example, wouldn't even need to translate the position.

</obligatory plug>

Scott

-----Original Message-----

From: Darryl Smith [mailto:Darryl@radio-active.net.au]
Sent: Tuesday, March 18, 2003 1:09 PM
To: APRS Spec Discussion List
Cc: 'APRS Spec Discussion List'
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations

I think that there is a more fundermental issue here that I have uncovered. It is to determine a priority for decoding APRS... Basically what I see is that we could have a few different implementation types, because like it or not, not every author implements everything...

I know that many authors do not implement base-91 compressed. Others do not do GPWPL. Some do not do every \$GP sentence apart from \$GPWPL.

Right now APRS authors *SHOULD* implement base-91 compressed, and *SHOULD* implement GPWPL. Whilst these types are nice, they are not used very often, and at are often not worth the hassle of implementing. I know that in my AntiTracker decoder, built into a PIC, that I did not have space to implement either of these.

I think that we need to give some guidance to authors about what features are more critical than others, since I suspect that there is only one piece of software out there that implements the lot.

Darryl

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

-----Original Message-----

From: Bob Bruninga [mailto:bruninga@usna.edu]
Sent: Wednesday, 19 March 2003 12:35 AM
To: Darryl Smith
Cc: 'APRS Spec Discussion List'
Subject: RE: [aprsspec] NMEA recommended sentences for APRS stations

On Tue, 18 Mar 2003, Darryl Smith wrote:

> I am not saying that it would not be useful, but I would not suggest
> that this is a sentence that **SHOULD** be implemented in all

> software.

But if stations are using WAYPOINT format to send OBJECTS in your event, it is essential that ALL participating stations see the same thing. THUS all APRS stations are expected to decode the WAYPOINT format as an object and place it on the map.

TO not implement it means an incomplete APRS implementation that destroys the integrity of the standardization of APRS.

Bob

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 18 15:55:30 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id PAA27602
for <lyris.aprsspec@tappr.org>; Tue, 18 Mar 2003 15:55:26 -0600 (CST)
Mime-Version: 1.0
Message-Id: <LYR11589-124922-2003.03.18-16.44.45--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 18 Mar 2003 16:48:31 -0500
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Mark Sproul <msproul@jove.rutgers.edu>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
Content-Type: text/plain; charset="us-ascii" ; format="flowed"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Mark Sproul <msproul@jove.rutgers.edu>
X-Message-Id: <a05111b08ba9d4481c290@[128.6.238.130]>
<LYR11591-124917-2003.03.18-16.00.07--kb2ici#amsat.org@lists.tappr.org>
<LYR11591-124917-2003.03.18-16.00.07--kb2ici#amsat.org@lists.tappr.org>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

Being one of the authors, I think I can address some of these issues.

Accepting \$GPWPL from a GPS in a program is kind of useless if that program does have anything to do with it. A value from \$GPWPL is a waypoint, not a station as APRS has for one of its main constructs. Therefore if a given program does not have any features to handle a "waypoint", then decoding \$GPWPL is kind of pointless.

Now it so happens that waypoints is one of the things I am currently working on in WinAPRS so this IS something that I intend to address.

As you stated, different authors do different things, what is CRITICAL to one user may be useless to another. Being an author, if I don't get requests for a particular feature, it gets ignored.

Mark

--

```
-----
Mark Sproul                               |
http://ecs.rutgers.edu                     |
msproul@jove.rutgers.edu                   |
Manager - Engineering Computing Services   | 732-445-3121
Rutgers University School of Engineering  |
Eng D111                                   |
-----
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 18:51:13 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id SAA05202
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 18:51:07 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Mar 2003 19:50:38 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: "'APRS Spec Discussion List'" <aprsspec@lists.tapr.org>

Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
In-Reply-To: <004101c2ed92\$9c3878f0\$4601a8c0@DELL8000>
Message-ID: <LYR11589-124967-2003.03.18-19.40.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303181929150.28328-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 19 Mar 2003, Darryl Smith wrote:

> I think that we need to give some guidance to authors about what
> features are more critical than others, since I suspect that there is
> only one piece of software out there that implements the lot.

Thanks for offering me a stump! hi hi:

In my opinion, there is only one answer. APRS is a communications system. It is for emergencies, and come as you are communications. It MUST be fully implemented in EVERY implementation if there is any hope of actually "communicating" across platforms... OR each omission must be clearly identified so that users know what they "cant see"...

This is why I wanted to "license" authors. To make sure that "APRS" would work. But now we have a tower of Babbble, The only way I can be sure that someone sees my DF bearings, My AREA Contours, My Waypoints, My ICON Overlays, My Moving WEATEHER objects, my DX cluster spots or RESOURCES, or Highway Mile marks or just about anything else correctly is to have the other person use APRSdos.

But we all know that APRSdos maps are obsolete.. Thus we have many other excellent progrms that have been written. But some authors only wrote the part of APRS that looked "pretty". And ignored many of the hard or "rarely used" functions..

Of course, the RARELY USED features are very powerful when they are used for what they were intended. And just because you do not have a conflaguration or 911 in ones county every day which demands reliable, digital communications with INTEGRITY, does not mean that any given function is not "important".

Now, it is OK to omit functions, because there are 30,000 lines of code in APRSdos and no one can implement all of APRS overnight. So APRS programs evolve... But EVERY PROGRAM THAT DOES NOT IMPLEMENT FEATURES MUST MAKE A LIST OF SUCH OMISSIONS so that its users know what they CANNOT SEE...

Again, I am not faulting anyone. I would be happy if authors simply displayed a WARNING whenever they received an APRS format that is in the SPEC but that is not implemented instead of just ignoring it. That way the user can do what he needs to get the information via other means, but we cannot just ignore parts of the spec...

Again, we need to display to users UP-FRONT and at every instance what is not yet implemented, this is the only way to keep the users informed of what they can and cannot do cross-platform when they need it. And it lets them know what they are not seeing...

Thanks
Bob

```
> > Darryl > >
----- > Darryl Smith, VK2TDS    POBox 169 Ingleburn NSW 2565 Australia
> Mobile Number 0412 929 634 [+61 4 12 929 634 International]
> Darryl@radio-active.net.au | www.radio-active.net.au
>
> -----Original Message-----
> From: Bob Bruninga [mailto:bruninga@usna.edu]
> Sent: Wednesday, 19 March 2003 12:35 AM
> To: Darryl Smith
> Cc: 'APRS Spec Discussion List'
> Subject: RE: [aprsspec] NMEA recommended sentences for APRS stations
>
>
> On Tue, 18 Mar 2003, Darryl Smith wrote:
>
> > I am not saying that it would not be useful, but I would not suggest
> > that this is a sentence that **SHOULD** be implemented in all
> > software.
>
> But if stations are using WAYPOINT format to send OBJECTS in your event,
> it is essential that ALL participating stations see the same thing.
> THUS all APRS stations are expected to decode the WAYPOINT format as an
> object and place it on the map.
>
> TO not implement it means an incomplete APRS implementation that
> destroys the integrity of the standardization of APRS.
>
```

> Bob
>
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://ssdl.stanford.edu/mims/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 19:00:47 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA05404
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 19:00:43 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Mar 2003 20:00:20 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR11586-124918-2003.03.18-16.08.40--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-124968-2003.03.18-19.50.04--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303181950570.28328-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Tue, 18 Mar 2003, Miller Scott Contr 30SCS/FTI wrote:

> I really think the bloat added to the spec by features like this that are
> only used by 0.1% of the population is really not worth the small benefit it
> gives.

It is this attitude which has destroyed APRS and has made cross platform communications almost useless in a REAL communications scenario. APRS was designed for REAL-TIME EMERGENCY, and PRIORITY communications.

IT WAS NOT DESIGNED FOR 24/7 round the clock monitoring of a useless overloaded congested channel with NOTHING of interest going on. I agree 99.9% of what you see on APRS is NOTHING to do with what APRS is designed to do!

Taking this attitude, do you take out all the fire alarms in the building because no one ever uses them? Do you remove the ability to dial 911 from your phone system because a few people use it wrongly? Do you take all the memory channels out of your radio except 146.52 and your favorite repeater because you only use them 99% of the time and only use the other 1% of the time?

How about taking the jack and spare tire out of your trunk? When was the last time you used that? Let see. About 10 miles out of every 10,000. Yep, thats less than 0.1%. Must be useless right?

The 0.1% features that you say are bloat are because only 0.1% of the population is using APRS for what it was designed to be used for. This is NOT their fault at all. We hope that we dont have emergencies and disasters all the time, but we need to use it 24/7 and BE FAMILIAR WITH ALL ITS FEATURES so that we can use it when we need it that 0.1% of the time...

Geeze, Throwing out what the "majority" never uses is the best way to guarantee that you will have a system that cant do anything else. APRS is not just a flashy video game...

Bob, WB4APR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Mar 18 19:05:58 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id TAA05556
for <lyris.aprsspec@tappr.org>; Tue, 18 Mar 2003 19:05:53 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 18 Mar 2003 20:05:27 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR11586-124922-2003.03.18-16.44.45--
bruninga#nadm.navy.mil@lists.tappr.org>
Message-ID: <LYR11589-124969-2003.03.18-19.55.08--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303182001130.28328-1000000@arctic>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>

On Tue, 18 Mar 2003, Mark Sproul wrote:

> Accepting \$GPWPL from a GPS in a program is kind of useless if that
> program does have anything to do with it. A value from \$GPWPL is a
> waypoint, not a station as APRS has for one of its main constructs.
> Therefore if a given program does not have any features to handle a
> "waypoint", then decoding \$GPWPL is kind of pointless.

It certainly does. A waypoint is an object on a map. I can think of
no more of a fundamntl constuct for ARPS than its OBJECTS. It takes
only a few lines of code to parse a \$GPWPL into an OBJECT. Why cripple a
program and cross platform users by leaving out such a fundamental
aspect of APRS...?

> As you stated, different authors do different things, what is
> CRITICAL to one user may be useless to another. Being an author, if I
> don't get requests for a particular feature, it gets ignored.

Which is why APRS is becoming a tower of babble...

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Mar 18 19:14:54 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA05834
for <lyris.aprsspec@tapr.org>; Tue, 18 Mar 2003 19:14:50 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 18 Mar 2003 17:14:23 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: NMEA recommended sentences for APRS stations
In-Reply-To: <LYR29682-124969-2003.03.18-19.55.08--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-124970-2003.03.18-20.04.04--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 19 Mar 2003 01:14:24.0851 (UTC)
FILETIME=[E13C3230:01C2EDB4]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0303181707320.31136-1000000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 18 Mar 2003, Bob Bruninga wrote:

> > As you stated, different authors do different things, what is
> > CRITICAL to one user may be useless to another. Being an author, if I
> > don't get requests for a particular feature, it gets ignored.
>
> Which is why APRS is becoming a tower of babble...

<MyOpinion>

</MyOpinion>

1) Ask on the APRSSIG mailing list for someone who's familiar with software testing and you may get a bite. Perhaps they can coordinate a group of testers to test for spec conformance, and publish a report on a regular basis. Seems like you might just find a body to fill that slot. The more people that see the conformance results the better of we'll all be.

Just some ideas...

— —

— — —

From bounce-aprsspec-11589@lists.tapr.org Sun Mar 23 15:41:27 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA28026
for <lyris.aprsspec@tapr.org>; Sun, 23 Mar 2003 15:41:26 -0600 (CST)
From: "Darryl Smith" <Darryl@radio-active.net.au>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Call for Powerpoint Files
Date: Mon, 24 Mar 2003 08:39:56 +1100
Message-ID: <LYR11589-125573-2003.03.23-16.30.41--
lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit
X-Priority: 3 (Normal)
X-MSMail-Priority: Normal
Importance: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
X-Spam-Score: 3.3 (+++)
X-Spam-Flag: NO
X-Spam-Report: SPAM: ----- Start SpamAssassin results

 SPAM: This mail is probably spam. The original message has been altered
 SPAM: so you can recognise or block similar unwanted mail in future.
 SPAM: See <http://spamassassin.org/tag/> for more details.
 SPAM:
 SPAM: Content analysis details: (3.3 hits, 5 required)
 SPAM: VERY_SUSP_RECIPS (1.0 points) To: contains similar usernames at
least 5 times
 SPAM: PORN_11 (1.2 points) BODY: Uses words and phrases which
indicate porn (11)
 SPAM: DOUBLE_CAPSWORD (1.1 points) BODY: A word in all caps repeated on
the line
 SPAM:
 SPAM: ----- End of SpamAssassin results -----
X-Scanner: exiscan for exim4 (<http://duncanthrax.net/exiscan/>)
*18xDCK-00025c-00*0tMgkX0BtTM*
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Darryl Smith" <Darryl@radio-active.net.au>
X-Message-Id: <002201c2f184\$c2b69d40\$8504a8c0@DELL8000>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

People

I am looking for powerpoint files to create an improved indexing of PowerPoint files on TAPR.ORG. I have found some presentations, but I know that there are a LOT more out there. I would like to get as many powerpoint files on TAPR.ORG as possible and indexed.

If you have any powerpoint files that you would like to contribute to the TAPR.ORG archive, please send me an email at VK2TDS@TAPR.ORG and I will let you know where you can send the file. The files that I need are anything to do with amateur radio digital communications. This would

include

- DCC Presentations (I have most of 2002 seperately)
- APRS and GPS
- Digital Voice
- Emergency Digital Operations
- Spread Spectrum and 802.11
- etc

The only powerpoints I know of are listed below...

Thanks.... Darryl VK2TDS

ftp.tapr.org

- ./aprssig/dosstuff/APRSdos/pcsat-sum.ppt
- ./aprssig/dosstuff/APRSdos/science-jpg.ppt
- ./aprssig/dosstuff/APRSdos/science-serb.ppt
- ./aprssig/dosstuff/DOSmisc/RWFPPT.zip
- ./aprssig/presentations/96olympic.zip
- ./aprssig/presentations/APRSNE.ZIP
- ./aprssig/presentations/APRSPRES.exe
- ./aprssig/presentations/FireTrak.ZIP
- ./aprssig/presentations/HamfestHandout.doc
- ./aprssig/presentations/N4NEQPPT.ZIP
- ./aprssig/presentations/VK2TDS_Presentation.zip
- ./aprssig/presentations/aprs_intro.zip
- ./aprssig/presentations/aprsbrochure.zip
- ./aprssig/presentations/aprsdemo.ppt
- ./aprssig/presentations/aprstprs98.pdf
- ./aprssig/presentations/aprstprs98.zip
- ./aprssig/presentations/dcc2k_intro.ppt
- ./aprssig/presentations/dcc99.ppt
- ./aprssig/presentations/ham_com_2001.ppt
- ./aprssig/presentations/kd4rdb-aprs-messages.ppt
- ./aprssig/presentations/kd4rdb.pdf
- ./aprssig/presentations/kd4rdb.ppt
- ./aprssig/presentations/train.zip
- ./pub/tprs/hamcom97.ppt
- ./pub/tprs/hamcom98/aprs.hamcom98.ppt
- ./pub/tprs/hamcom98/wb5aoh.hamcom98.ppt
- ./pub/tprs/hamcom98/wd0etz.hamcom98.ppt
- ./ss/intro_ss.ppt

Darryl Smith, VK2TDS POBox 169 Ingleburn NSW 2565 Australia
Mobile Number 0412 929 634 [+61 4 12 929 634 International]
Darryl@radio-active.net.au | www.radio-active.net.au

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Mar 27 09:43:29 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id JAA09991
for <lyris.aprsspec@tapr.org>; Thu, 27 Mar 2003 09:43:26 -0600 (CST)
Date: Thu, 27 Mar 2003 9:42:48
Subject: [aprsspec] Water Temperature on APRS
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: "Eric Christensen" <christensene@mebtel.net>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Eric Christensen" <christensene@mebtel.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Message-Id: <LYR11589-126188-2003.03.27-10.33.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
Precedence: bulk

Question for the group... Does anyone know if there is a place in the
weather data format to put water temperature?

73s,
Eric KF40TN

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 08:25:31 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id IAA27454
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 08:25:30 -0600 (CST)
Message-ID: <LYR11589-127054-2003.04.01-09.14.43--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR31010-126950-2003.03.31-13.39.33--
gerry.creager@tamu.edu@lists.tapr.org> <LYR32310-127050-2003.04.01-08.30.10--
g6isy@dsl.pipex.com@lists.tapr.org>
Subject: [aprsspec] Datum (Was Re: [aprssig] Re: XASTIR help needed)
Date: Tue, 1 Apr 2003 15:24:11 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <001201c2f85a\$5dad9fc0\$0100000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Gerry Creager N5JXS wrote:

> For those not doing serious geodesy NAD83 is identical to WGS84. If
> anyone wants a discussion of the differences, I'll be glad to oblige.
>

I'm glad its not just us in the UK that are forever having debates regarding datums.

It seems to me that there should be a facility in the APRS spec to be able to define the datum in use.

The spec states that the default datum is WGS84 but does not provide a means of specifying what the datum is, if the default is not used. This is especially important in areas such as the UK where virtually all maps available are to a datum other than WGS84.

Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 10:30:15 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id KAA02055
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 10:30:12 -0600 (CST)
Message-ID: <LYR11589-127076-2003.04.01-11.19.30--
lyris.aprsspec@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: [aprssig] Re: Datum (Was Re: XASTIR help needed)
Date: Tue, 1 Apr 2003 16:28:47 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE0434EC33@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I have to agree. The majority of my maps are in polyconic Albers equal area projection - the standard for the state of California. I think it's a lot more reasonable to either provide a reprojection facility, or require that the user reprojects the maps before use, than to have every client support a thousand different data ('data' being the proper plural of 'datum') and who knows how many different projections.

-----Original Message-----

From: J. Lance Cotton [mailto:joe@lightningflash.net]
Sent: Tuesday, April 01, 2003 6:50 AM
To: TAPR APRS Special Interest Group
Cc: APRS Spec Discussion List
Subject: [aprssig] Re: Datum (Was Re: XASTIR help needed)

It would seem that if the APRS spec says that WGS84 is the datum of APRS (not just the default, but the only), then it's put squarely upon the shoulders

of
the client program authors to ensure that any maps it reads in are
re-projected or otherwise corrected into WGS84, or that any data it gets
from
the APRS system (RF or IS) is translated to whatever datum the map display
is
using.

Unfortunately, these dealing with datums and re-projection is tough stuff,
and
if you're just making some program to draw stations on maps, one may not dig
deep enough to even know that there are these things called 'datums'.

So theoretically, everything on the 'public' side of APRS (RF and IS) should
be WGS84, and anything internal to the client program can be whatever the
author (or user) chooses, so long as it stays internal.

More practically, Bob B. might say that the original design of APRS was for
local tactical something-or-other. If it's local, and everyone uses the same
setup (software, maps, etc.) then it may not matter (much), so long as you
can see the relative positions of everyone involved in your 'tactical
event'.

\$0.02

-Lance KJ50

On Tuesday 01 April 2003 08:24, Laurie - g6isy wrote:

> Gerry Creager N5JXS wrote:
> > For those not doing serious geodesy NAD83 is identical to WGS84. If
> > anyone wants a discussion of the differences, I'll be glad to oblige.
>
> I'm glad its not just us in the UK that are forever having debates
> regarding datums.
> It seems to me that there should be a facility in the APRS spec to be able
> to define the datum in use.
> The spec states that the default datum is WGS84 but does not provide a
> means of specifying what the datum is, if the default is not used. This is
> especially important in areas such as the UK where virtually all maps
> available are to a datum other than WGS84.
>
> Laurie - G6ISY

--

J. Lance Cotton, KJ50

Three Step Plan: 1. Take over the world. 2. Get a lot of cookies. 3. Eat the cookies.

You are currently subscribed to aprssig as: scott.miller@vandenberg.af.mil
To unsubscribe send a blank email to leave-aprssi-31505P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 1 11:05:18 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id LAA03216
for <lyris.aprsspec@tappr.org>; Tue, 1 Apr 2003 11:05:12 -0600 (CST)
Message-ID: <LYR11589-127077-2003.04.01-11.54.30--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 1 Apr 2003 18:03:58 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Datum
References: <LYR26815-127076-2003.04.01-11.19.30--
roger#peaksys.co.uk@lists.tappr.org>
In-Reply-To: <LYR26815-127076-2003.04.01-11.19.30--
roger#peaksys.co.uk@lists.tappr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <nxJqCOA+Zci+Ew3a@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

>From: J. Lance Cotton [mailto:joe@lightningflash.net]

>

>It would seem that if the APRS spec says that WGS84 is the datum of
>APRS (not just the default, but the only), then it's put squarely upon
>the shoulders of the client program authors to ensure that any maps it
>reads in are re-projected or otherwise corrected into WGS84, or that
>any data it gets from the APRS system (RF or IS) is translated to
>whatever datum the map display is using.

I think you've missed the point. I don't think the original question related to maps being "read in" to APRS client programs.

Try this -

Imagine a tactical exercise with the public services in the UK. A variety of APRS equipment is being used, from sophisticated client programs down to TH-D7s. The one thing you can guarantee is that every single paper map being used by the public services will be based on OSGB-36, not on WGS-84.

In that situation, do you really think the APRS users should be using WGS-84? So someone stands there with his TH-D7, receives the position of an ambulance object based on WGS-84, and then presumably has to get out his pocket computer to try and transform the location to OSGB-36, so the ambulance controller can reference the location to his paper map? That wouldn't be too impressive, would it?

Of course the only sensible thing to do in such a situation is to use OSGB-36 on APRS, and it is an obvious omission from the APRS spec that there is no designated way of stating the datum being used.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 11:25:12 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA04076
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 11:25:11 -0600 (CST)
Date: Tue, 1 Apr 2003 11:24:56 -0600 (CST)
From: "Timothy J. Salo" <salo@saloits.com>
Message-Id: <LYR11589-127080-2003.04.01-12.15.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR31168-127077-2003.04.01-11.54.30--
salo@saloits.com@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Timothy J. Salo" <salo@saloits.com>
X-Message-Id: <200304011724.h31H0u3Y057596@www.saloits.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

> Date: Tue, 1 Apr 2003 18:03:58 +0100
> From: Roger Barker <...>
> Subject: [aprsspec] Re: Datum
> [...]
> Imagine a tactical exercise with the public services in the UK. A
> variety of APRS equipment is being used, from sophisticated client
> programs down to TH-D7s. The one thing you can guarantee is that every
> single paper map being used by the public services will be based on
> OSGB-36, not on WGS-84.
>
> In that situation, do you really think the APRS users should be using
> WGS-84? So someone stands there with his TH-D7, receives the position of
> an ambulance object based on WGS-84, and then presumably has to get out
> his pocket computer to try and transform the location to OSGB-36, so the
> ambulance controller can reference the location to his paper map? That
> wouldn't be too impressive, would it?
>
> Of course the only sensible thing to do in such a situation is to use
> OSGB-36 on APRS, and it is an obvious omission from the APRS spec that
> there is no designated way of stating the datum being used.

What datum is being used on the air in the UK?

Do your GPS receivers default to WGS-84? Do you reprogram
your GPS receivers to use OSGB-36?

Are you suggesting that OSGB-36 be used on the air in the UK,
or that APRS clients translate between on-the-air WGS-84 to
on-the-screen OSGB-36?

-tjs

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 1 11:37:41 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA05265
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 11:37:34 -0600 (CST)
Message-ID: <LYR11589-127081-2003.04.01-12.27.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 1 Apr 2003 18:35:53 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Datum
References: <LYR31168-127077-2003.04.01-11.54.30--salo#saloits.com@lists.tapr.org>
<LYR26815-127080-2003.04.01-12.15.06--roger#peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-127080-2003.04.01-12.15.06--
roger#peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <PBIGeWA53ci+EwxK@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-127080-2003.04.01-12.15.06--roger#peaksys.co.uk@lists.tapr.org>, Timothy J. Salo <salo@saloits.com> writes
>> Date: Tue, 1 Apr 2003 18:03:58 +0100
>> From: Roger Barker <...>
>> Subject: [aprsspec] Re: Datum
>> [...]
>> Imagine a tactical exercise with the public services in the UK. A
>> variety of APRS equipment is being used, from sophisticated client
>> programs down to TH-D7s. The one thing you can guarantee is that every
>> single paper map being used by the public services will be based on
>> OSGB-36, not on WGS-84.
>>
>> In that situation, do you really think the APRS users should be using
>> WGS-84? So someone stands there with his TH-D7, receives the position of
>> an ambulance object based on WGS-84, and then presumably has to get out
>> his pocket computer to try and transform the location to OSGB-36, so the
>> ambulance controller can reference the location to his paper map? That
>> wouldn't be too impressive, would it?
>>
>> Of course the only sensible thing to do in such a situation is to use
>> OSGB-36 on APRS, and it is an obvious omission from the APRS spec that
>> there is no designated way of stating the datum being used.
>
>What datum is being used on the air in the UK?
>

>Do your GPS receivers default to WGS-84? Do you reprogram
>your GPS receivers to use OSGB-36?
>
>Are you suggesting that OSGB-36 be used on the air in the UK,
>or that APRS clients translate between on-the-air WGS-84 to
>on-the-screen OSGB-36?

I thought I had explained my point very clearly... Read it again, and then tell me whether, in the situation I described, the use of OSGB-36 on APRS is sensible.

Think of what I described - the lowest level - the ham with the TH-D7 receiving posits that have to be related to a paper map being used by the public services, and that paper map will be based on OSGB-36.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 13:51:28 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id NAA11626
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 13:51:28 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 1 Apr 2003 14:51:02 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help needed)
In-Reply-To: <LYR11586-127054-2003.04.01-09.14.43--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-127099-2003.04.01-14.41.21--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0304011449280.8136-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 1 Apr 2003, Laurie - g6isy wrote:

> The spec states that the default datum is WGS84 but does not provide a means
> of specifying what the datum is, if the default is not used. This is
> especially important in areas such as the UK where virtually all maps
> available are to a datum other than WGS84.

That is the on-air format. Authors are may convert to other
internal datums for display. But the on-air values must be WGS84 for
compatibility.

bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 13:57:31 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id NAA12217
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 13:57:31 -0600 (CST)
Message-ID: <LYR11589-127100-2003.04.01-14.47.20--
lyris.aprsspec@tapr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR32576-127080-2003.04.01-12.15.06--
g6isy@dsl.pipex.com>
Subject: [aprsspec] Re: Datum
Date: Tue, 1 Apr 2003 20:56:59 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <009e01c2f888\$dbc42220\$0100000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Timothy J. Salo wrote:

>
> What datum is being used on the air in the UK?
>

It is a mixture of WGS-84 and OSGB-36

> Do your GPS receivers default to WGS-84? Do you reprogram
> your GPS receivers to use OSGB-36?
>

Anyone that has to interface with a system that uses the UK national mapping standard (which includes paper maps) will have re-programmed their GPS to OSGB-36.

Those that like to see themselves on findu in the correct place will use WGS-84.

Others don't know what a datum is :-)

> Are you suggesting that OSGB-36 be used on the air in the UK,
> or that APRS clients translate between on-the-air WGS-84 to
> on-the-screen OSGB-36?

The suggestion is that there should be a mechanism to be able the datum in use to be transmitted.

--

73 Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:03:21 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA12373
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:03:14 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 1 Apr 2003 15:02:44 -0500 (EST)

From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR11586-127077-2003.04.01-11.54.30--bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-127101-2003.04.01-14.53.08--lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0304011459050.8136-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 1 Apr 2003, Roger Barker wrote:

> Imagine a tactical exercise with the public services in the UK. A
> variety of APRS equipment is being used, from sophisticated client
> programs down to TH-D7s. The one thing you can guarantee is that every
> single paper map being used by the public services will be based on
> OSGB-36, not on WGS-84.
>
> Of course the only sensible thing to do in such a situation is to use
> OSGB-36 on APRS, and it is an obvious omission from the APRS spec that
> there is no designated way of stating the datum being used.

One way is to put it in the UNPROTO TOCALL instead of the software version. This can even be done in the Kenwoods using the UNPROTO menu. But then we loose software version. Would it make sense to use the OSGB-36 everywhere in the country by default and use WGS84 by exception?

I don t konw.

Or send out a BULLETIN at any event saying what datum is in use.?
Ideas?

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:11:24 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA12689
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:11:23 -0600 (CST)
Message-ID: <LYR11589-127102-2003.04.01-15.01.16--
lyris.aprsspec@lists.tapr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR32576-127099-2003.04.01-14.41.21--
g6isy@dsl.pipex.com@lists.tapr.org>
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help needed)
Date: Tue, 1 Apr 2003 21:11:06 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <00aa01c2f88a\$d4102b80\$0100000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Bob Bruninga wrote:

> On Tue, 1 Apr 2003, Laurie - g6isy wrote:

>

>> The spec states that the default datum is WGS84 but does not provide
>> a means of specifying what the datum is, if the default is not used.
>> This is especially important in areas such as the UK where virtually
>> all maps available are to a datum other than WGS84.

>

> That is the on-air format. Authors are may convert to other
> internal datums for display. But the on-air values must be WGS84 for
> compatibility.

>

Bob,

The trouble is that WGS84 is not a suitable format for many situations. Virtually all our user service systems and paper maps in the UK use OSGB36 not WGS84.

It is not practical to take a co-ordinate from APRS in WGS84 and then use a calculator to translate it to OSGB36 so that is usable by the services we work with.

The spec does not say that WGS84 must be used on-air, it says the default is WGS84.

What I (and many others) want is a legitimate way of specifying, over the air, that we are using a datum that is different from the default.

The bottom line is that if a mechanism is not provided in the spec, then the spec will just be ignored, as the final aim is to pass useful data. In many circumstances that can only be done by sending OSGB36 over the air.

--

73 Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:21:41 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA12859
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:21:37 -0600 (CST)
Message-ID: <LYR11589-127103-2003.04.01-15.11.27--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Tue, 1 Apr 2003 14:21:11 -0600 (CST)
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help needed)
From: "James Jefferson" <jj@aprsworld.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
In-Reply-To: <LYR19704-127102-2003.04.01-15.01.16--
jjeffers#aprsworld.net@lists.tapr.org>
References: <LYR32576-127099-2003.04.01-14.41.21--
g6isy#dsl.pipex.com@lists.tapr.org>
<LYR19704-127102-2003.04.01-15.01.16--
jjeffers#aprsworld.net@lists.tapr.org>
X-Priority: 3
Importance: Normal
Cc: <aprsspec@lists.tapr.org>
Reply-To: "James Jefferson" <jj@aprsworld.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
X-Message-Id: <4199.129.186.205.216.1049228471.squirrel@zero.voxel.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Laurie,

The issue is that with a single standard datum (WGS84) only map display programs need to do datum conversions. But, if multiple datums were transmitted over the air, each receiver would be required to do datum conversion. In the case of a D7, D700, HamHud or pretty much anything that isn't running a full blown PC or workstation, those calculations would not be possible. Doing a datum conversion requires a database of elipsoids (and other stuff, I'm sure) and a bunch of floating point calculations.

-Jim KB0THN

> The trouble is that WGS84 is not a suitable format for many situations.
> Virtually all our user service systems and paper maps in the UK use
> OSGB36 not WGS84.
> It is not practical to take a co-ordinate from APRS in WGS84 and then
> use a calculator to translate it to OSGB36 so that is usable by the
> services we work with.
> The spec does not say that WGS84 must be used on-air, it says the
> default is WGS84.
> What I (and many others) want is a legitimate way of specifying, over
> the air, that we are using a datum that is different from the default.
> The bottom line is that if a mechanism is not provided in the spec, then
> the spec will just be ignored, as the final aim is to pass useful data.
> In many circumstances that can only be done by sending OSGB36 over the
> air.
>
> --
> 73 Laurie - G6ISY
>
>
> ---
> You are currently subscribed to aprsspec as: jjeffers@aprsworld.net To
> unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wa1lou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:25:11 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA12976
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:25:11 -0600 (CST)
Message-ID: <LYR11589-127104-2003.04.01-15.14.52--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 1 Apr 2003 21:24:24 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Datum
References: <LYR11586-127077-2003.04.01-11.54.30--
bruninga@nadm.navy.mil@lists.tapr.org>
<Pine.GS0.4.44.0304011459050.8136-1000000@arctic>
In-Reply-To: <Pine.GS0.4.44.0304011459050.8136-1000000@arctic>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <rSIZaOA4Vfi+EwEK@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <Pine.GS0.4.44.0304011459050.8136-1000000@arctic>, Bob
Bruninga <bruninga@usna.edu> writes

>On Tue, 1 Apr 2003, Roger Barker wrote:

>

>> Imagine a tactical exercise with the public services in the UK. A
>> variety of APRS equipment is being used, from sophisticated client
>> programs down to TH-D7s. The one thing you can guarantee is that every
>> single paper map being used by the public services will be based on
>> OSGB-36, not on WGS-84.

>>

>> Of course the only sensible thing to do in such a situation is to use
>> OSGB-36 on APRS, and it is an obvious omission from the APRS spec that
>> there is no designated way of stating the datum being used.

>

>One way is to put it in the UNPROTO TOCALL instead of the software
>version. This can even be done in the Kenwoods using the UNPROTO menu.

>But then we loose software version. Would it make sense to use the
>OSGB-36 everywhere in the country by default and use WGS84 by exception?

The sensible thing to do in the UK is to use OSGB-36, because that is the datum used for all our paper maps. I really only joined in this discussion because of the comment someone made that WGS-84 was the only datum that should be used on air. Here that makes no sense!

To identify the datum being used, and give clients the option of applying a transformation, one possibility is to put the datum in the posit comment, e.g. -

/D=OSGB36

Clients that understand it can use it, other apps will ignore it.

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:25:47 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13006
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:25:47 -0600 (CST)
Message-ID: <LYR11589-127105-2003.04.01-15.15.38--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 01 Apr 2003 12:24:57 -0800
From: Dana Myers K6JQ <k6jq@arrl.net>
User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.3) Gecko/20030312
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
References: <LYR28303-127101-2003.04.01-14.53.08--k6jq@arrl.net@lists.tapr.org>
In-Reply-To: <LYR28303-127101-2003.04.01-14.53.08--k6jq@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Dana Myers K6JQ <k6jq@arrl.net>

X-Message-Id: <3E89F599.3070101@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapir.org
Precedence: bulk

Bob Bruninga wrote:

>One way is to put it in the UNPROTO TOCALL instead of the software
>version. This can even be done in the Kenwoods using the UNPROTO menu.
>But then we loose software version. Would it make sense to use the
>OSGB-36 everywhere in the country by default and use WGS84 by exception?
>
>I don t konw.
>Or send out a BULLETIN at any event saying what datum is in use.?
>Ideas?
>
>

Some thoughts:

- 1) Shifting to regional default interpretation of APRS data (in general) opens a whole new area of administration / potential confusion. Well, the potential confusion appears to already be there, and recognizing it probably won't make it a lot better.
- 2) The problem with interpreting a coordinate in the wrong datum is that you won't get the correct absolute location. That's probably worse than no location report at all.
- 3) Separately transmitting the datum in use could easily lead to a case where some stations use one datum and other stations use another, and it becomes necessary to keep track of which datum a station has advertised.
- 4) Separately transmitting the datum means that a station could send position reports for 15, 30 or more minutes before anyone knows which datum the reports are in. See #2 above.

Personally, I think the ongoing desire to make APRS an extensible system is really a strong pressue to adopt an extensible representation. For example, there are tens of millions of wbXML devices in use, perhaps we should be thinking of how to evolve to something based on wbXML where data items can be explicitly typed when sent.

Dana K6JQ

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:44:28 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13581
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:44:27 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 1 Apr 2003 12:44:05 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help needed)
In-Reply-To: <LYR29682-127103-2003.04.01-15.11.27--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-127106-2003.04.01-15.34.19--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 01 Apr 2003 20:44:07.0744 (UTC)
FILETIME=[70DE8C00:01C2F88F]
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0304011225440.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 1 Apr 2003, James Jefferson wrote:

> The issue is that with a single standard datum (WGS84) only map display
> programs need to do datum conversions. But, if multiple datums were
> transmitted over the air, each receiver would be required to do datum
> conversion. In the case of a D7, D700, HamHud or pretty much anything that
> isn't running a full blown PC or workstation, those calculations would not
> be possible. Doing a datum conversion requires a database of elipsoids
> (and other stuff, I'm sure) and a bunch of floating point calculations.

This whole thing has been brought up once or twice before, but

perhaps it'll get more airtime this go-around.

The example given of OSGB36 paper maps is an interesting one. We have a similar setup in SAR where most paper maps are NAD27 datum, but the APRS datum and the datum chosen by our SAR group is WGS84. People in the field sometimes switch between NAD27 (paper maps) and WGS84 (voice comms) while on their mission, depending on the accuracy they need at the time and whether we're bugging them for their position over comms.

For our county-sized area, we could use fixed offsets to the lat/long and have enough accuracy for our work, but that might not be the case for other datums or other areas. Fixed offsets could be done by low-end processors without getting into ellipsoid tables or floating point calculations, but again, that might not work in the general case.

The choice of datum for an affected area would depend greatly on who you have to work with at the time. Having the choice of on-the-air datum (and broadcasting that choice with the packet) and the choice of the on-screen datum would be ideal.

Those with less than full APRS mapping computers would need to assume that everyone is using the default datum for the event and do no conversions at all.

Those with computer mapping systems could have the computer convert the positions to the chosen display datum as they are received, so that any positions read off the display are instantly usable by other public agencies involved.

One thing on the Xastir todo list is to convert any GPS data from a local GPS into WGS84 before that data is used, so that it matches APRS standard datum. It sounds like we may want to have that an optional feature so that people can deviate from that datum if required.

Garmin GPS's put out different data on their serial lines based on the display datum selected, which I believe was an unknown "feature" at the time the APRS spec was written. It was believed that the NMEA data stream always used WGS84 data in all cases. That changed with Garmin, perhaps others.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math!"

"Windows: Microsoft's tax on computer illiterates!" -- WE7U

"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:46:32 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13636
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:46:31 -0600 (CST)
Message-ID: <LYR11589-127107-2003.04.01-15.36.19--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
Date: Tue, 1 Apr 2003 20:45:26 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE0434ECA5@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The OpenTRAC protocol (<http://www.opentrac.org>) is pretty close to what you're describing. I've made the choice in the protocol specification to allow only WGS84, though. My feeling is that if you're going to be plotting coordinates by hand on a non-WGS84 map, using a receiving device that's not capable of translating the coordinates, you can go get yourself some transparency sheets and print up a WGS84 grid to overlay on your paper maps.

-----Original Message-----

From: Dana Myers K6JQ [<mailto:k6jq@arrl.net>]
Sent: Tuesday, April 01, 2003 12:25 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Re: Datum

Bob Bruninga wrote:

>One way is to put it in the UNPROTO TOCALL instead of the software
>version. This can even be done in the Kenwoods using the UNPROTO menu.
>But then we loose software version. Would it make sense to use the
>OSGB-36 everywhere in the country by default and use WGS84 by exception?
>
>I don t konw.
>Or send out a BULLETIN at any event saying what datum is in use.?
>Ideas?
>
>

Some thoughts:

- 1) Shifting to regional default interpretation of APRS data (in general) opens a whole new area of administration / potential confusion. Well, the potential confusion appears to already be there, and recognizing it probably won't make it a lot better.
- 2) The problem with interpreting a coordinate in the wrong datum is that you won't get the correct absolute location. That's probably worse than no location report at all.
- 3) Separately transmitting the datum in use could easily lead to a case where some stations use one datum and other stations use another, and it becomes necessary to keep track of which datum a station has advertised.
- 4) Separately transmitting the datum means that a station could send position reports for 15, 30 or more minutes before anyone knows which datum the reports are in. See #2 above.

Personally, I think the ongoing desire to make APRS an extensible system is really a strong pressue to adopt an extensible representation. For example, there are tens of millions of wbXML devices in use, perhaps we should be thinking of how to evolve to something based on wbXML where data items can be explicitly typed when sent.

Dana K6JQ

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.taprr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:51:36 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13771
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:51:35 -0600 (CST)
Message-ID: <LYR11589-127108-2003.04.01-15.41.26--
lyris.aprsspec@lists.tapr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR32576-127099-2003.04.01-14.41.21--
g6isy@dsl.pipex.com@lists.tapr.org> <LYR19704-127102-2003.04.01-15.01.16--
jjeffers@aprsworld.net@lists.tapr.org> <LYR32576-127103-2003.04.01-15.11.27--
g6isy@dsl.pipex.com@lists.tapr.org>
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help needed)
Date: Tue, 1 Apr 2003 21:51:15 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <011e01c2f890\$706a7800\$01000000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

James Jefferson wrote:

> Laurie,
>
> The issue is that with a single standard datum (WGS84) only map
> display programs need to do datum conversions.

Jim,

With only WGS84 on-air it is not only map display programs that need to do

datum conversions.

Anyone trying to find the position on one of our paper maps would have to do it as none of them use WGS84

> In the case of a D7, D700, HamHud or pretty
> much anything that isn't running a full blown PC or workstation,
> those calculations would not be possible.

I wouldn't expect a D7 or D700 to do any datum conversion. I would expect it to display the posit it had received as is.

However, future radios (when a suitable method for sending the datum had been agreed) would in addition be able to display the datum that had been used.

--

73 Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 14:57:02 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13952
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 14:56:59 -0600 (CST)
Message-ID: <LYR11589-127109-2003.04.01-15.46.53--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Tue, 1 Apr 2003 21:56:11 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Datum
References: <LYR26815-127107-2003.04.01-15.36.19--
roger@peaksys.co.uk@lists.tapr.org>
In-Reply-To: <LYR26815-127107-2003.04.01-15.36.19--
roger@peaksys.co.uk@lists.tapr.org>
MIME-Version: 1.0
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <NisQWPArzfi+EwC+@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

In message <LYR26815-127107-2003.04.01-15.36.19--roger#peaksys.co.uk@lists.tappr.org>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil> writes

>The OpenTRAC protocol (<http://www.opentrac.org>) is pretty close to what
>you're describing. I've made the choice in the protocol specification to
>allow only WGS84, though. My feeling is that if you're going to be plotting
>coordinates by hand on a non-WGS84 map, using a receiving device that's not
>capable of translating the coordinates, you can go get yourself some
>transparency sheets and print up a WGS84 grid to overlay on your paper maps.

That really is not practical.

If you were working with a public service in an emergency situation, would you seriously expect them to overlay their paper maps, which use the standard datum for the area, with a WGS-84 grid, just because a few radio hams insisted on using a datum different to the standard for the area?

You have to take a realistic approach to this, and the only possible realistic approach is that, in an emergency situation, it has to be possible to relate local posits to the local paper maps without applying a transformation, because equipment might well be in use that cannot apply transformations.

To me the above is so blinding obvious that I can't see how anyone can argue against it...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 1 15:06:48 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id PAA14331
for <lyris.aprsspec@tappr.org>; Tue, 1 Apr 2003 15:06:44 -0600 (CST)
Message-ID: <LYR11589-127111-2003.04.01-15.56.42--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR32576-127107-2003.04.01-15.36.19--

g6isy#dsl.pipex.com@lists.tapr.org>
Subject: [aprsspec] Re: Datum
Date: Tue, 1 Apr 2003 22:06:32 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <013201c2f892\$929ef5c0\$0100000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Miller Scott Contr 30SCS/FTI wrote:

> you can go get yourself some transparency sheets and
> print up a WGS84 grid to overlay on your paper maps.

Not really practical, the maps may be of many scales. Also when you are talking of one of our user services, the map is quite likely to be displayed on one of their GIS computer screens.

--

73 Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 15:12:10 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA14516
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 15:12:05 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 1 Apr 2003 13:11:13 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR29682-127109-2003.04.01-15.46.53--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-127112-2003.04.01-16.01.32--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 01 Apr 2003 21:11:15.0636 (UTC)
FILETIME=[3B2B2740:01C2F893]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0304011302490.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Tue, 1 Apr 2003, Roger Barker wrote:

> That really is not practical.
>
> If you were working with a public service in an emergency situation,
> would you seriously expect them to overlay their paper maps, which use
> the standard datum for the area, with a WGS-84 grid, just because a few
> radio hams insisted on using a datum different to the standard for the
> area?
>
> You have to take a realistic approach to this, and the only possible
> realistic approach is that, in an emergency situation, it has to be
> possible to relate local posits to the local paper maps without applying
> a transformation, because equipment might well be in use that cannot
> apply transformations.
>
> To me the above is so blinding obvious that I can't see how anyone can
> argue against it...

; -)

We've been under severe time pressure before to convert coordinates from one datum to another, or check them against paper maps quickly during SAR activities. I can verify that it's not a good feeling to have people breathing down your necks saying "aren't you done yet?" when a helo or an ambulance is ready to launch. Compounding that problem is the "what lat/long format did they give it to us in?" question, which occurs all too often.

In an emergency situation, faster is better, however that can be accomplished without losing accuracy.

I vote for allowing different datums on the air, but requiring each and every packet with a non-WGS84 datum to specify the datum in a machine-parsable _and_ human-parsable format. That way we can adapt to different situations/regions quickly and easily. The APRS client software can be upgraded over time to parse and convert these to the datum the operator is currently using for map display.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math!"

"Windows: Microsoft's tax on computer illiterates!" -- WE7U

"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 15:15:44 2003

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA14652

for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 15:15:37 -0600 (CST)

Message-ID: <LYR11589-127113-2003.04.01-16.05.18--

lyris.aprsspec@tapr.org@lists.tapr.org>

Date: Tue, 01 Apr 2003 13:14:29 -0800

From: Dana Myers K6JQ <k6jq@arrl.net>

User-Agent: Mozilla/5.0 (Windows; U; Windows NT 5.1; en-US; rv:1.3) Gecko/20030312

X-Accept-Language: en-us, en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>

Subject: [aprsspec] Re: Datum

References: <LYR26815-127107-2003.04.01-15.36.19--

roger#peaksys.co.uk@lists.tapr.org> <LYR28303-127109-2003.04.01-15.46.53--

k6jq#arrl.net@lists.tapr.org>

In-Reply-To: <LYR28303-127109-2003.04.01-15.46.53--k6jq#arrl.net@lists.tapr.org>

Content-Type: text/plain; charset=ISO-8859-1; format=flowed

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Dana Myers K6JQ <k6jq@arrl.net>
X-Message-Id: <3E8A0135.60706@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Roger Barker wrote:

>In message <LYR26815-127107-2003.04.01-15.36.19--roger#peaksys.co.uk@lis
>ts.tapr.org>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenbergh.af.mil>
>il> writes
>
>
>>The OpenTRAC protocol (<http://www.opentrac.org>) is pretty close to what
>>you're describing. I've made the choice in the protocol specification to
>>allow only WGS84, though. My feeling is that if you're going to be plotting
>>coordinates by hand on a non-WGS84 map, using a receiving device that's not
>>capable of translating the coordinates, you can go get yourself some
>>transparency sheets and print up a WGS84 grid to overlay on your paper maps.
>>
>>
>
>That really is not practical.
>
>
Sure it is, in the case of a new protocol that's not already
widely deployed. OpenTRAC isn't already deployed on a
bunch of legacy devices (like TH-D7s), so it can establish any
protocol it wishes. There's a real advantage to expressing
the position in a well-known form and allowing 'localization'
at the clients, since the clients know where they are and what
the display requirements are.

The potential downside is that some senders will convert from one
datum to WGS 84, only to have a receiver convert back to the original
datum. Wasted work but no harm done as long as the conversions are
consistent.

A real issue might be the ability to deploy OpenTRAC clients,
but that is another thing.

Dana K6JQ

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 15:38:29 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA15619
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 15:38:27 -0600 (CST)
Message-ID: <LYR11589-127117-2003.04.01-16.28.25--
lyris.aprsspec@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
Date: Tue, 1 Apr 2003 21:38:07 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE0434ECB6@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Roger, I know where you're coming from, I just don't know if this is the best way to do it. GPS receivers use WGS84, and to my knowledge there's no standard way to make sure the serial output is anything else. Where are the coordinates read from that are passed to the emergency services personnel? A PC should have no problem performing conversions on the receiving end (my PC here has a database of 975 reference systems), so I can only see it as being a problem if they're looking at a Kenwood or something. Which isn't something I'd want to subject my local emergency dispatcher to.

Ok, I'll admit that map overlays aren't the easiest solution. Now that I've had lunch and I'm not so grumpy. Dang diet. =]

So I guess the issue is being able to pass through non-WGS84 coordinates from appropriately configured trackers to dumb clients in a consistent manner. Which I'll concede might be convenient in certain circumstances. I just cringe every time we've got to tack more data onto the comment field, and add more complexity to the clients.

Scott

-----Original Message-----

From: Roger Barker [mailto:roger@peaksys.co.uk]
Sent: Tuesday, April 01, 2003 12:56 PM
To: APRS Spec Discussion List
Subject: [aprsspec] Re: Datum

In message <LYR26815-127107-2003.04.01-15.36.19--roger#peaksys.co.uk@lists.tapir.org>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil> writes

>The OpenTRAC protocol (<http://www.opentrac.org>) is pretty close to what
>you're describing. I've made the choice in the protocol specification to
>allow only WGS84, though. My feeling is that if you're going to be
plotting
>coordinates by hand on a non-WGS84 map, using a receiving device that's not
>capable of translating the coordinates, you can go get yourself some
>transparency sheets and print up a WGS84 grid to overlay on your paper
maps.

That really is not practical.

If you were working with a public service in an emergency situation, would you seriously expect them to overlay their paper maps, which use the standard datum for the area, with a WGS-84 grid, just because a few radio hams insisted on using a datum different to the standard for the area?

You have to take a realistic approach to this, and the only possible realistic approach is that, in an emergency situation, it has to be possible to relate local posits to the local paper maps without applying a transformation, because equipment might well be in use that cannot apply transformations.

To me the above is so blinding obvious that I can't see how anyone can argue against it...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org
Questions regarding the SIG go to the SIG administrator: waillou@tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapir.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 15:43:01 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA15742
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 15:42:59 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Tue, 1 Apr 2003 16:42:20 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR11586-127117-2003.04.01-16.28.25--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-127118-2003.04.01-16.32.49--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0304011640230.8136-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Another place to put the datum would be on the end of the digpeater field.

I konw the purists wont like that, but it is a free field that is optional
and doesnt mess up anything while still allowing the full use of the
Position comment field or status fields.

And it allows up to 6 charactetrs...

Just a thought...
Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 1 15:47:50 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id PAA16019
for <lyris.aprsspec@tappr.org>; Tue, 1 Apr 2003 15:47:49 -0600 (CST)
Message-ID: <LYR11589-127119-2003.04.01-16.37.44--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Tue, 1 Apr 2003 22:47:03 +0100
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
From: Roger Barker <roger@peaksys.co.uk>
Subject: [aprsspec] Re: Datum
References: <7BF8A28ADD2DD511B5020090278586EE0434ECB6@fsxumu03.vandenberg.af.mil>
In-Reply-To: <7BF8A28ADD2DD511B5020090278586EE0434ECB6@fsxumu03.vandenberg.af.mil>
MIME-Version: 1.0
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: Roger Barker <roger@peaksys.co.uk>
X-Message-Id: <XdDmpkAXjgi+EwzR@peaksys.co.uk>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

In message <7BF8A28ADD2DD511B5020090278586EE0434ECB6@fsxumu03.vandenberg.af.mil>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil> writes

>Roger, I know where you're coming from,

You don't demonstrate that...

> I just don't know if this is the
>best way to do it. GPS receivers use WGS84, and to my knowledge there's no
>standard way to make sure the serial output is anything else. Where are the
>coordinates read from that are passed to the emergency services personnel?
>A PC should have no problem performing conversions on the receiving end (my
>PC here has a database of 975 reference systems), so I can only see it as
>being a problem if they're looking at a Kenwood or something. Which isn't
>something I'd want to subject my local emergency dispatcher to.

So, we're going to rule out the use of TH-D7s, TM-D700s, simple terminal programs, etc, because of some "rule" that APRS has to use WGS-84 on air? If there's an emergency, we only allow hams to help who have suitably sophisticated equipment? Even if, in some situations, a TH-D7 is far more practical than a PC?

Ok, I give up. We're on different planets...

--

Roger Barker, G4IDE - roger@peaksys.co.uk
For UI-View go to - <http://www.UI-View.com>
For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 16:05:45 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id QAA16819
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 16:05:44 -0600 (CST)
Message-ID: <LYR11589-127120-2003.04.01-16.55.33--
lyris.aprsspec@tapr.org@lists.tapr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
Date: Tue, 1 Apr 2003 22:05:15 -0000
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE0434ECC4@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Read the rest of my message... I'm conceding that your way makes sense for certain situations. I don't like it, but considering the hardware that's out there now and how you want to use it, it's practical. I just won't be doing it that way in OpenTrac. Which shouldn't really be a problem, as long as everyone knows from the start that's how it's going to be and understands they'll have to take care of the translation if they want to use any other system.

Honestly, I'm not trying to start flame wars here... just stating my opinion.

Scott

-----Original Message-----

From: Roger Barker [mailto:roger@peaksys.co.uk]

Sent: Tuesday, April 01, 2003 1:47 PM

To: APRS Spec Discussion List

Subject: [aprsspec] Re: Datum

In message <7BF8A28ADD2DD511B5020090278586EE0434ECB6@fsxumu03.vandenberg.af.mil>, Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil> writes

>Roger, I know where you're coming from,

You don't demonstrate that...

> I just don't know if this is the

>best way to do it. GPS receivers use WGS84, and to my knowledge there's no
>standard way to make sure the serial output is anything else. Where are
the

>coordinates read from that are passed to the emergency services personnel?

>A PC should have no problem performing conversions on the receiving end (my

>PC here has a database of 975 reference systems), so I can only see it as

>being a problem if they're looking at a Kenwood or something. Which isn't

>something I'd want to subject my local emergency dispatcher to.

So, we're going to rule out the use of TH-D7s, TM-D700s, simple terminal programs, etc, because of some "rule" that APRS has to use WGS-84 on air? If there's an emergency, we only allow hams to help who have suitably sophisticated equipment? Even if, in some situations, a TH-D7 is far more practical than a PC?

Ok, I give up. We're on different planets...

--

Roger Barker, G4IDE - roger@peaksys.co.uk

For UI-View go to - <http://www.UI-View.com>

For WinPack go to - <http://www.peaksys.co.uk>

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Tue Apr 1 16:40:10 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id QAA17785
for <lyris.aprsspec@tappr.org>; Tue, 1 Apr 2003 16:40:08 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 1 Apr 2003 14:39:39 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR29682-127118-2003.04.01-16.32.49--
curt.mills#fluke.com@lists.tappr.org>
Message-ID: <LYR11589-127121-2003.04.01-17.29.59--
lyris.aprsspec#tappr.org@lists.tappr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 01 Apr 2003 22:39:41.0121 (UTC)
FILETIME=[957BEB10:01C2F89F]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tappr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0304011430450.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

On Tue, 1 Apr 2003, Bob Bruninga wrote:

> Another place to put the datum would be on the end of the digipeater field.
>
> I konw the purists wont like that, but it is a free field that is optional
> and doesnt mess up anything while still allowing the full use of the
> Position comment field or status fields.
>
> And it allows up to 6 charactetrs...

I would have no problem with that. We typically don't need all eight digipeater fields for APRS uses on RF.

How about having it in the last used digipeater path -or- in the comment field? Allow two options.

Do any of the firmware-based APRS rigs have restrictions on the formation of a digipeater callsign? If so, or even just to provide

-----Original Message-----

From: Curt Mills, WE7U [mailto:hacker@tc.fluke.com]

Sent: Tuesday, April 01, 2003 2:40 PM

To: APRS Spec Discussion List

Cc: APRS Spec Discussion List

Subject: [aprsspec] Re: Datum

On Tue, 1 Apr 2003, Bob Bruninga wrote:

> Another place to put the datum would be on the end of the digipeater field.

>

> I konw the purists wont like that, but it is a free field that is optional

> and doesnt mess up anything while still allowing the full use of the

> Position comment field or status fields.

>

> And it allows up to 6 charactetrs...

I would have no problem with that. We typically don't need all eight digipeater fields for APRS uses on RF.

How about having it in the last used digipeater path -or- in the comment field? Allow two options.

Do any of the firmware-based APRS rigs have restrictions on the formation of a digipeater callsign? If so, or even just to provide more flexibility, the datum could be specified either way.

If this can be agreed upon then we'll need some parsable strings for specifying the datums within 6 characters plus a digit or two. Hopefully some standard table used in GIS applications can be adopted directly so there's no ambiguity as to the choice of strings and proper parsing is guaranteed.

--

Curt Mills, WE7U hacker_NO_SPAM_@tc.fluke.com

Senior Methods Engineer/SysAdmin

"Lotto: A tax on people who are bad at math!"

"Windows: Microsoft's tax on computer illiterates!" -- WE7U

"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: scott.miller@vandenberg.af.mil

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapir.org

Questions regarding the SIG go to the SIG administrator: wallou@tapir.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 17:08:16 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id RAA19198
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 17:08:15 -0600 (CST)
Message-ID: <LYR11589-127123-2003.04.01-17.58.14--
lyris.aprsspec@lists.tapr.org>
From: "Laurie - g6isy" <g6isy@dsl.pipex.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR32576-127117-2003.04.01-16.28.25--
g6isy@dsl.pipex.com@lists.tapr.org>
Subject: [aprsspec] Re: Datum
Date: Wed, 2 Apr 2003 00:08:06 +0100
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MIMEOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Laurie - g6isy" <g6isy@dsl.pipex.com>
X-Message-Id: <021001c2f8a3\$8e25e100\$01000000a@lan>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Miller Scott Contr 30SCS/FTI wrote:

> Roger, I know where you're coming from, I just don't know if this is
> the best way to do it. GPS receivers use WGS84, and to my knowledge
> there's no standard way to make sure the serial output is anything
> else. Where are the coordinates read from that are passed to the
> emergency services personnel?

Scott,

Most modern GPS's I've seen can be set to almost any datum and will send position data to that datum in the NEMA sentences. There are a few that are WGS84 only and a few that are difficult to change. I agree it's not normally possible to determine the datum from the NEMA data, the datum in use would have to be entered manually.

A practical scenario is as follows :

Someone is sent to a location (defined by the emergency service) and the co-ordinates are given using OSGB36.
They will have their GPS set to OSGB so they can find the correct position.
The progress of the person is monitored and plotted on maps (all in OSGB).

In addition objects may be transmitted where their positions have been entered manually, having been read from paper maps.

The location of the objects will be read from the screen and passed to the user service.

So far, so good, everything is in OSGB

Then, someone else, (who has a GPS that only does WGS84) is sent to the same location. They will probably find the location ok but they will never appear that they have and there is no way of telling that the two users are using a different datum.

(We'll ignore the fact that in the UK we normally don't normally use Lat/Long either, its normally NGR :-) but we can get over that more easily.)

--

73 Laurie - G6ISY

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 17:24:14 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id RAA19610
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 17:24:12 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Tue, 1 Apr 2003 15:23:55 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR29682-127123-2003.04.01-17.58.14--curt.mills@fluke.com@lists.tapr.org>
Message-ID: <LYR11589-127124-2003.04.01-18.14.09-->

lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 01 Apr 2003 23:23:57.0950 (UTC)
FILETIME=[C513D9E0:01C2F8A5]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0304011510340.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 2 Apr 2003, Laurie - g6isy wrote:

> Most modern GPS's I've seen can be set to almost any datum and will send
> position data to that datum in the NEMA sentences.
> There are a few that are WGS84 only and a few that are difficult to change.
> I agree it's not normally possible to determine the datum from the NEMA
> data, the datum in use would have to be entered manually.

Garmins output a proprietary sentence "\$PGRMM" which tells us the horizontal datum used. I don't know about other brands. Some Garmins may not put out this sentence, and in fact I can turn on/off individual sentences in one of my Garmins.

If it can be parsed automatically it should be, but there must be an option to enter it manually into APRS clients as well (I heartily agree with you!).

Here are some sentences that may be of interest:

"\$GPD TM". May be a datum sentence, not sure, never actually seen one of these.

"\$PGRMC". Contains earth datum index, details about the datum used such as semi-major axis, inverse flattening, etc.

"\$PGRMM". Currently active horizontal datum. Looks like this:

\$PGRMM,WGS 84*06

--

Curt Mills, WE7U
Senior Methods Engineer/SysAdmin

hacker_NO_SPAM_@tc.fluke.com

"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 18:41:43 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id SAA22750
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 18:41:41 -0600 (CST)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Tue, 01 Apr 2003 19:38:06 -0500
Subject: [aprsspec] publish or perish
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-127131-2003.04.01-19.30.45--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <BAAF9B1E.DB61%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id SAA22750

Here is your chance to become rich and famous! Well, maybe not rich, but certainly famous.

The editorial board of Packet Status Register (PSR, TAPR's quarterly newsletter) is now soliciting articles, news items, etc. for the next issue of the newsletter. Topics related to digital Amateur Radio will be given preference and the editorial board reserves the right to determine what is suitable for publication.

E-mail your contributions to wallou@tapr.org ASAP because the deadline for the next issue of the newsletter is April 24.

Don't forget, if you are a TAPR member, you will add three months to your TAPR membership for every article that is published in PSR.

73,

Stan Horzepa, WA1LOU, PSR Editor

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue Apr 1 23:03:49 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id XAA02595
for <lyris.aprsspec@tapr.org>; Tue, 1 Apr 2003 23:03:48 -0600 (CST)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Wed, 02 Apr 2003 07:00:11 +0200
Subject: [aprsspec] Re: Datum (Was Re: [aprssig] Re: XASTIR help
needed)

From: Juergen Frank <db2fm@jfsattv.de>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-127163-2003.04.01-23.52.34--
lyris.aprsspec@tapr.org@lists.tapr.org>
In-Reply-To: <LYR31286-127108-2003.04.01-15.41.26--
db2fm@jfsattv.de@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Juergen Frank <db2fm@jfsattv.de>
X-Message-Id: <BAB03AFB.B8E3%db2fm@jfsattv.de>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

This discussion is very interesting for me but sometimes also funny! I'll explain, why: WGS-84 is the internationally selected map datum for ALL countries around the world but there seem to be countries not willing to adopt it for their paper maps. On the other side there is a country using this map datum but not using standards on very lower levels (speed, distances etc.) that have been standardised long before. But they are saying that they are correct.

For our German paper maps I can say, that most of them are available with WGS-84 and have our local system on the same map (Gauss-Krueger with Potsdam-23) as a grid in a different colo(u)r. On ALL electronic maps available from official sources you can switch coordinate systems (and map datums at the same time). So for an SAR-mission it would be possible to print out maps to be used for the needed area to be supplied to the rescue teams. Are there no electronic maps (with hopefully switchable datums) to be printed out available for the UK? At least for SAR-missions?

Just my two EUR-cts.

73 de Juergen

am 01.04.2003 22:51 Uhr schrieb Laurie - g6isy unter g6isy@dsl.pipex.com:

```
> James Jefferson wrote:
>> Laurie,
>>
>> The issue is that with a single standard datum (WGS84) only map
>> display programs need to do datum conversions.
>
> Jim,
>
> With only WGS84 on-air it is not only map display programs that need to do
> datum conversions.
> Anyone trying to find the position on one of our paper maps would have to do
> it as none of them use WGS84
>
>> In the case of a D7, D700, HamHud or pretty
>> much anything that isn't running a full blown PC or workstation,
>> those calculations would not be possible.
>
> I wouldn't expect a D7 or D700 to do any datum conversion. I would expect it
> to display the posit it had received as is.
> However, future radios (when a suitable method for sending the datum had
> been agreed) would in addition be able to display the datum that had been
> used.
>
> --
> 73 Laurie - G6ISY
```

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tappr.org Wed Apr 2 21:52:20 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id VAA20636
for <lyris.aprsspec@tappr.org>; Wed, 2 Apr 2003 21:52:20 -0600 (CST)
Message-ID: <LYR11589-127305-2003.04.02-22.42.14--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: "Rich Beckwith" <wn0x@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
References: <LYR26000-127124-2003.04.01-18.14.09--
wn0x#earthlink.net@lists.tappr.org>
Subject: [aprsspec] Re: Datum
Date: Wed, 2 Apr 2003 21:51:49 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Rich Beckwith" <wn0x@earthlink.net>
X-Message-Id: <005e01c2f994\$5bf67630\$a4af85ce@DPS004817>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I have researched datum conversion and gave up on-the-fly conversion because of the complexity, performance issues and margin for error. I am not a mathematician however, and strictly a novice GIS enthusiast.

As I understand it, the original datum is first converted to a reference ellipsoid, then to the target datum in a multi-step process. Lots of floating point math. The method varies, but in some cases up to 7 parameters are required for every datum you wish to convert.

Take a look at the Molodensky transform here:

<http://www.colorado.edu/geography/gcraft/notes/datum/gif/molodens.gif>

Here is a page I book marked for reference:

<http://www.colorado.edu/geography/gcraft/notes/mapproj/mapproj.html>

One issue I ran into is that even experienced GIS users don't completely understand datums. Almost everyone new they were using NAD83, but had no idea which projection (UTMxxx). This makes a world of difference if you are trying to convert ESRI shape files to something useable in WGS84 for APRS. Don't even think about mentioning the reference spheroid/ellipsoids etc.

It makes a lot of sense that our friends in GB would use the same datum their public safety agencies use. At least their more consistent that the US where many GIS shops are still using NAD27, most are moving towards NAD83 (various projections) and WGS84 for GPS.

It would be nice to know if a posit is in a datum I don't expect, but I'm not sure what I would do about it if I did.

Regards,

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 3 11:53:27 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA17994

for <lyris.aprsspec@tapr.org>; Thu, 3 Apr 2003 11:53:26 -0600 (CST)
X-Authentication-Warning: wapiti.tc.fluke.com: archer owned process doing -bs
Date: Thu, 3 Apr 2003 09:52:22 -0800 (PST)
From: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-X-Sender: <archer@wapiti.tc.fluke.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Datum
In-Reply-To: <LYR29682-127305-2003.04.02-22.42.14--
curt.mills#fluke.com@lists.tapr.org>
Message-ID: <LYR11589-127362-2003.04.03-12.42.48--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-OriginalArrivalTime: 03 Apr 2003 17:52:24.0460 (UTC)
FILETIME=[C875ACC0:01C2FA09]
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Curt Mills, WE7U" <hacker@tc.fluke.com>
X-Message-Id: <Pine.LNX.4.33.0304030943500.31136-100000@wapiti.tc.fluke.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Wed, 2 Apr 2003, Rich Beckwith wrote:

> I have researched datum conversion and gave up on-the-fly conversion because
> of the complexity, performance issues and margin for error. I am not a
> mathematician however, and strictly a novice GIS enthusiast.

I have a Perl5 module that easily does the conversions between many different datums. Xastir has datum.c and datum.h which do the same thing (in fact the Perl5 and C code were derived from the same source originally).

It's certainly possible to do it on the fly. Whether you'd want to on a particularly busy internet stream (or lots of them at once!) is quite another question.

Converting them as they come in from RF wouldn't be difficult, and if it was assumed that they were WGS84 unless otherwise identified, the conversion load would be greatly decreased.

--

Curt Mills, WE7U
Senior Methods Engineer/SysAdmin

hacker_NO_SPAM_@tc.fluke.com

"Lotto: A tax on people who are bad at math!"
"Windows: Microsoft's tax on computer illiterates!" -- WE7U
"The world DOES revolve around me: I picked the coordinate system!"

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Thu Apr 3 14:32:58 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA25367
for <lyris.aprsspec@tapr.org>; Thu, 3 Apr 2003 14:32:53 -0600 (CST)
Message-ID: <LYR11589-127379-2003.04.03-15.21.15--
lyris.aprsspec@tapr.org>
From: "Rich Beckwith" <wn0x@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Cc: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
References: <LYR26000-127124-2003.04.01-18.14.09--
wn0x@earthlink.net> <LYR22347-127305-2003.04.02-22.42.14--
n5jxs@tamu.edu> <3E8C487F.3080205@tamu.edu>
Subject: [aprsspec] Re: Datum
Date: Thu, 3 Apr 2003 14:30:37 -0600
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
X-Priority: 3
X-MSMail-Priority: Normal
X-MimeOLE: Produced By Microsoft MimeOLE V6.00.2800.1106
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Rich Beckwith" <wn0x@earthlink.net>
X-Message-Id: <001001c2fa1f\$e9a637f0\$56ae85ce@DPS004817>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thanks for clearing that up Gerry.

A year or two ago someone contributed a couple of articles on maps/datums to the APRSSIG. I wish I had kept them because they were a great intro to the subject and were a fairly detailed description of reference spheroids, ellipsoids and map projections.

Ditto on the meta data. I have run across several maps I would have loved to have, but after playing unsuccessfully for hours trying to determine the projection and get a usable map I gave up. I have ArcView 3.2 and 8 available, but I believe version 8 is the only version I have that has a datum conversion tool.

What is your opinion of decimal degree vs degree/minutes/second? Everything I have written is based on decimal degree because I like working with that format. Performance issues aside (floating point math), 5 decimal places will give you pretty good positional accuracy and only requires 8 bytes per posit.

Rich - Wn0x

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 4 13:16:11 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id NAA09655
for <lyris.aprsspec@tapr.org>; Fri, 4 Apr 2003 13:16:09 -0600 (CST)
Message-ID: <LYR11589-127468-2003.04.04-14.06.11--
lyris.aprsspec#tapr.org@lists.tapr.org>
Date: Fri, 04 Apr 2003 14:15:43 -0500
From: Alan Crosswell <n2ygk@weca.org>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.3) Gecko/20030314
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] is there a draft updated spec?
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Alan Crosswell <n2ygk@weca.org>
X-Message-Id: <3E8DD9DF.1030907@weca.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Greetings,

Is there a draft updated spec anywhere or otherwise a summary of new features since the 1.0.1 spec was published? I am working on a new release of aprsdigi and would like to throw in any interesting new (experimental) features.

73
/a

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 4 13:22:00 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id NAA10100
for <lyris.aprsspec@tapr.org>; Fri, 4 Apr 2003 13:22:00 -0600 (CST)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Fri, 4 Apr 2003 14:21:38 -0500 (EST)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: is there a draft updated spec?
In-Reply-To: <LYR11586-127468-2003.04.04-14.06.11--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-127469-2003.04.04-14.12.00--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GSO.4.44.0304041420440.16813-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Fri, 4 Apr 2003, Alan Crosswell wrote:

> Is there a draft updated spec anywhere or otherwise a summary of new
> features since the 1.0.1 spec was published? I am working on a new
> release of aprsdigi and would like to throw in any interesting new

> (experimental) features.

Yes, see my <http://www.ew.usna.edu/~bruninga/aprs/errata.html>

Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 4 14:26:15 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA12915
for <lyris.aprsspec@tapr.org>; Fri, 4 Apr 2003 14:26:09 -0600 (CST)
Message-ID: <LYR11589-127481-2003.04.04-15.15.59--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Fri, 04 Apr 2003 15:25:33 -0500
From: Alan Crosswell <n2ygk@weca.org>
User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.3) Gecko/20030314
X-Accept-Language: en-us, en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: Alan Crosswell <n2ygk@weca.org>,
APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: is there a draft updated spec?
References: <Pine.GS0.4.44.0304041420440.16813-1000000@arctic>
In-Reply-To: <Pine.GS0.4.44.0304041420440.16813-1000000@arctic>
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
X-Scanned-By: MIMEDefang 2.32 ([www . roaringpenguin . com / mimedefang](http://www.roaringpenguin.com/mimedefang))
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Alan Crosswell <n2ygk@weca.org>
X-Message-Id: <3E8DEA3D.5010606@weca.org>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Thanks, Bob. A quick read seems to indicate that the only areas to concern me for a digipeater/router that are not in spec 1.0.1 is the APRS-IS q-construct.

Does this sound right?

/a

Bob Bruninga wrote:

> On Fri, 4 Apr 2003, Alan Crosswell wrote:

>

>

>>Is there a draft updated spec anywhere or otherwise a summary of new
>>features since the 1.0.1 spec was published? I am working on a new
>>release of aprsdigi and would like to throw in any interesting new
>>(experimental) features.

>

>

> Yes, see my <http://www.ew.usna.edu/~bruninga/aprs/errata.html>

>

> Bob

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 4 14:29:32 2003

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.16) with SMTP id OAA13040

for <lyris.aprsspec@tapr.org>; Fri, 4 Apr 2003 14:29:29 -0600 (CST)

Message-ID: <LYR11589-127482-2003.04.04-15.19.28--

lyris.aprsspec@tapr.org>

Date: Fri, 04 Apr 2003 15:29:04 -0500

From: Alan Crosswell <n2ygk@weca.org>

User-Agent: Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.3) Gecko/20030314

X-Accept-Language: en-us, en

MIME-Version: 1.0

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] clarification of 3rd party tunneling in spec?

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>

List-Software: Lyris Server version 3.0

List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>

List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: Alan Crosswell <n2ygk@weca.org>

X-Message-Id: <3E8DEB10.8010308@weca.org>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

When a 3rd party packet is de-tunneled, the source-path header is inserted in front of the payload, prepended with the "{" character. It is not clear from the spec, assuming the detunneling is going back to an ax.25 network, what the ax.25 addresses should be. I am assuming it is the from-call of the digipeater, to-call "APRS". But what is the content of the digipeater list?

73
/a

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: waillou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 5 13:02:47 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id NAA26370
for <lyris.aprsspec@tapr.org>; Sat, 5 Apr 2003 13:02:45 -0600 (CST)
From: Jeff King <jeff@aerodata.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
CC: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Date: Sat, 5 Apr 2003 14:01:57 -0500
In-Reply-To: <LYR22299-127469-2003.04.04-14.12.00--
jeff#aerodata.net@lists.tapr.org>
Message-ID: <LYR11589-127601-2003.04.05-13.52.44--
lyris.aprsspec#tapr.org@lists.tapr.org>
Subject: [aprsspec] Re: is there a draft updated spec?
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Jeff King <jeff@aerodata.net>
X-Message-Id: <20034514157.011836@DARLA>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id NAA26370

This informative link should be added to the TAPR page that hosts the spec.
Anyone know how to accomplish this?

--

Jeff King, jeff@aerodata.net on 04/05/2003

On Fri, 4 Apr 2003 14:21:38 -0500 (EST), Bob Bruninga wrote:

>On Fri, 4 Apr 2003, Alan Crosswell wrote:

>

>> Is there a draft updated spec anywhere or otherwise a summary of new

>> features since the 1.0.1 spec was published?

>Yes, see my <http://www.ew.usna.edu/~bruninga/aprs/errata.html>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Fri Apr 11 15:59:00 2003

Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])

by tapr.org (8.9.3/8.9.3/1.16) with SMTP id PAA15684

for <lyris.aprsspec@tapr.org>; Fri, 11 Apr 2003 15:58:54 -0500 (CDT)

Date: Fri, 11 Apr 2003 16:40:06 -0400

From: John Ackermann N8UR <jra@febo.com>

To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

Subject: [aprsspec] Digital BASH at Hamvention

Message-ID: <LYR11589-128264-2003.04.11-16.45.28--

lyris.aprsspec#tapr.org@lists.tapr.org>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii; format=flowed

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

X-Spam-Status: No, hits=-0.9 required=5.0

tests=BALANCE_FOR_LONG,SPAM_PHRASE_03_05

version=2.43

List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>

List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>

X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>

Reply-To: John Ackermann N8UR <jra@febo.com>

X-Message-Id: <24660000.1050093606@[192.168.1.1]>

Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Announcing the 2003 TAPR Digital BASH!

What?

An event for the digitally-inclined ham, featuring:

- * Buffet dinner
- * Keynote Address: A Software Defined Radio for the Masses,
by Gerald Youngblood, AC50G
- * TAPR special interest group meetings
- * "Birds of a Feather" gatherings

When?

Friday evening, May 16, 2003

Doors open at 7:00 pm; dinner served at 7:30 pm

Speaker and meetings after dinner

Where?

Kohler's Banquet Center, 4548 Presidential Way, Kettering
(39 40.75N, 84 08.43W), just south of East David Road between Far
Hills Ave. and Wilmington Pike. Maps available on the TAPR web site
(<http://www.tapr.org/tapr/dayton>, follow the link at the bottom of the

page),

or at the TAPR booth.

How?

Dinner requires advance registration and payment through TAPR.
Tickets will be available at the TAPR booth on Friday, though
we strongly encourage registration <before> Hamvention. The
cost is \$25.00 per person, tax and tip included.

All amateurs are welcome to attend, enjoy the speaker, and
participate in the meetings, although only those purchasing a
dinner can eat.

To register, contact:

Digital BASH

c/o TAPR

8987-309 E. Tanque Verde Road #337

Tucson, AZ 85749-9399

Phone: 972-671-TAPR (8277)

Fax: 972-671-8716

Internet: tapr@tapr.org

Visa/Mastercard Accepted

Who?

PACK*BASH is co-sponsored by TAPR -- Tucson Amateur Packet Radio, the national leader in digital communication -- and the Miami Valley FM Association, Dayton's packet radio club.

For more information (including maps), go to
<http://www.tapr.org/tapr/dayton>,
or send email to tapr@tapr.org.

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 07:19:27 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id HAA10957
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 07:19:26 -0500 (CDT)
Message-ID: <LYR11589-128388-2003.04.12-08.09.35--
lyris.aprsspec@tapr.org>
Date: Sat, 12 Apr 2003 08:14:22 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] WWV Data?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E98031E.BFD01B42@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

I'm searching for the ability to announce WWV data via APRS. The APRS Protocol Spec appears to be silent on this use (I've searched on SFI and WWV). Is this true? Will this require "user defined data" and begging for authors to parse for it? :)

Ev, W2EV

--

What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by
sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 07:34:58 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id HAA11223
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 07:34:54 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: WWV Data?
Date: Sat, 12 Apr 2003 07:34:35 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-128390-2003.04.12-08.25.22--
lyris.aprsspec@tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] WWV Data?
Thread-Index: AcMA7dWzN5QUCsmNRBWJl6Gimd9V3AAANKyQ
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC07856E@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id HAA11223

SEC is the space arm of NOAA. Dale's weather server issues NWS messages from SEC as they are issued. For instance, SECIND messages are issued every hour listing the current "numbers" relevant to propagation. To see the last one, you can go to <http://www.aprs-is.net/wx/finger.asp> and do a finger on SEC IND. You will get the full text. If you then check the APRS Format box, you will see how it goes out to APRS-IS.

You can also go to <http://www.findu.com/cgi-bin/msg.cgi?call=SECIND> to see the recent history.

I have been gating all SEC packets to RF for the past few years here in the Dallas area. They do not add much load at all (usually no more than 1 packet per hour) and the information is of interest to the amateur radio community (at least those of us that have an interest in propagation).

Hope this helps.

73,

Pete Loveall AE5PL
pete@ae5pl.net

> -----Original Message-----

> From: Ev Tupis (W2EV) [mailto:w2ev@arrl.net]

> Posted At: Saturday, April 12, 2003 7:20 AM

> Posted To: APRS Specification

> Conversation: [aprsspec] WWV Data?

> Subject: [aprsspec] WWV Data?

>

>

> I'm searching for the ability to announce WWV data via APRS.

> The APRS Protocol Spec appears to be silent on this use (I've

> searched on SFI and WWV). Is this true? Will this require

> "user defined data" and begging for authors to parse for it? :)

>

> Ev, W2EV

>

> --

> What's cool in Amateur Radio?

> <http://www.BEACONet.org> or join the on-line community by

> sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

>

>

> ---

> You are currently subscribed to aprsspec as:

> HamLists@ametx.com To unsubscribe send a blank email to

> leave-aprsspec-11589P@lists.tappr.org

> Questions regarding the SIG go to the SIG administrator:

> wallou@tappr.org

>

>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 07:47:19 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id HAA11737
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 07:47:16 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 12 Apr 2003 08:46:53 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: WWV Data?
In-Reply-To: <LYR11586-128388-2003.04.12-08.09.35--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-128391-2003.04.12-08.37.42--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0304120846300.11484-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

On Sat, 12 Apr 2003, Ev Tupis (W2EV) wrote:

> I'm searching for the ability to announce WWV data via APRS. The APRS Protocol
> Spec appears to be silent on this use (I've searched on SFI and WWV). Is this
> true? Will this require "user defined data" and begging for authors to parse
> for it? :)

Someone in our area transmits WWV bulletins every now and then I see them
on my mobile...

Bob

>

> Ev, W2EV

>

> --

> What's cool in Amateur Radio?

> <http://www.BEACONet.org> or join the on-line community by

> sending a blank eMail to: BEACONet-subscribe@yahoogroups.com
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadm.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tappr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://ssdl.stanford.edu/mims/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tappr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 12 08:31:01 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id IAA13683
for <lyris.aprsspec@tappr.org>; Sat, 12 Apr 2003 08:31:01 -0500 (CDT)
Message-ID: <LYR11589-128392-2003.04.12-09.21.25--
lyris.aprsspec#tappr.org@lists.tappr.org>
Date: Sat, 12 Apr 2003 09:26:32 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Re: WWW Data?
References: <LYR30253-128391-2003.04.12-08.37.42--w2ev#arrl.net@lists.tappr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E981408.C2993732@arrl.net>
Sender: bounce-aprsspec-11589@lists.tappr.org

Precedence: bulk

> Someone in our area transmits WWV bulletins every now and then I see them
> on my mobile...

Hi Bob,

Is there a standard APRS format for such data, or is it just free-form comment text?

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 08:36:58 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id IAA13909
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 08:36:55 -0500 (CDT)
Message-ID: <LYR11589-128393-2003.04.12-09.27.12--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 12 Apr 2003 09:32:12 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] RE: WWV Data?
References: <LYR30253-128390-2003.04.12-08.25.22--w2ev@arrl.net@lists.tapr.org>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E98155C.B662AAD3@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

> I have been gating all SEC packets to RF for the past few years here in
> the Dallas area. They do not add much load at all (usually no more than
> 1 packet per hour) and the information is of interest to the amateur
> radio community (at least those of us that have an interest in
> propagation).

Hi Pete,

Yes, this helps. How do you gate the reports to RF? What format do they take? Does any APRS software parse and display it? Questions, quesitons. :)

Ev

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 08:51:51 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id IAA14435
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 08:51:51 -0500 (CDT)
content-class: urn:content-classes:message
Subject: [aprsspec] RE: WWV Data?
Date: Sat, 12 Apr 2003 08:51:22 -0500
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Message-ID: <LYR11589-128394-2003.04.12-09.42.10--
lyris.aprsspec#tapr.org@lists.tapr.org>
X-MimeOLE: Produced By Microsoft Exchange V6.0.6249.0
Thread-Topic: [aprsspec] RE: WWV Data?
Thread-Index: AcMA+Jtel1z/mo45TC+4XyvUnyF1WgAACaaA
From: "AE5PL Lists" <HamLists@ametx.com>
Sender: bounce-aprsspec-11589@lists.tapr.org
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "AE5PL Lists" <HamLists@ametx.com>
X-Message-Id: <9F1E0A2562D60B43BAA4C87505322DFC07856F@ame-main.ametx.com>
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id IAA14435

There are two formats for weather messages now used by Dale's weather server. If it is an alert, warning, etc., the message TO field will start with NWS (per the spec). If it is just informational, such as the hourly reports, the message TO field starts with SKY. This is from a finger that I just did:

```
SECIND>APRS::SKYSEC :Flx... A012 BK322.....  
PlnK322.....Ep112A809b379bEe425E952B {CAaAA  
SECIND>APRS::SKYSEC :Flx... A012 BK322.....  
PlnK322.....Ep966_846b364bEe414E976B {CBaAA  
SECIND>APRS::SKYSEC :Flx... A011 BK3222....  
PlnK3222....Ep153A108a638bEe465E111C {CCaAA  
SECIND>APRS::SKYSEC :Flx... A011 BK3222....  
PlnK3222....Ep163A102a347bEe533E143C {CDaAA
```

Note that these are standard message format. You have the solar flux number (... means not available for that report), A and K numbers along with the E flux numbers. If you play with <http://www.aprs-is.net/wx/finger.asp> as indicated before, you can see the full text message that corresponds to the last APRS packet sent.

I have APRS+SA set up to gate to RF anything from callsigns starting with SEC (SEC* is the actual setting in APRS+SA). These messages all originate from SEC so they get gated to RF.

As for software parsing it, all software should parse it. You may need to add SKYSEC to your group bulletin list to see the informational messages.

Hope this helps. I have found it very helpful, especially when there have been solar flares. I have usually found a warning issued via SEC before the band I am working goes dead.

73,

Pete Loveall AE5PL
pete@ae5pl.net

> -----Original Message-----

> From: Ev Tupis (W2EV) [mailto:w2ev@arrl.net]

> Posted At: Saturday, April 12, 2003 8:37 AM

> Subject: [aprsspec] RE: WWV Data?

>

> Yes, this helps. How do you gate the reports to RF? What

> format do they take?

> Does any APRS software parse and display it? Questions, quesitons. :)

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 09:40:18 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id JAA16478
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 09:40:18 -0500 (CDT)
Message-ID: <LYR11589-128411-2003.04.12-10.30.42--
lyris.aprsspec@tapr.org@lists.tapr.org>
Date: Sat, 12 Apr 2003 10:35:44 -0400
From: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Accept-Language: en
MIME-Version: 1.0
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] re: WWV Data?
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: "Ev Tupis (W2EV)" <w2ev@arrl.net>
X-Message-Id: <3E982440.6E969AF0@arrl.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

High quality information, as usual, Pete. I'm unsure how to get this information from wherever it resides and put it on RF (which is what I want to do as part of the PropNET/BEACONet project). I'll ask further questions on this topic off-list as this is neither tactical or emergency in nature. :)

Thanks, sincerely.
Ev, W2EV

AE5PL Lists wrote:

```
>
> There are two formats for weather messages now used by Dale's weather
> server. If it is an alert, warning, etc., the message TO field will
> start with NWS (per the spec). If it is just informational, such as the
> hourly reports, the message TO field starts with SKY. This is from a
> finger that I just did:
>
> SECIND>APRS::SKYSEC :Flx... A012 BK322.....
> PlnK322.....Ep112A809b379bEe425E952B {CAaAA
> SECIND>APRS::SKYSEC :Flx... A012 BK322.....
> PlnK322.....Ep966_846b364bEe414E976B {CBaAA
> SECIND>APRS::SKYSEC :Flx... A011 BK3222....
> PlnK3222....Ep153A108a638bEe465E111C {CCaAA
> SECIND>APRS::SKYSEC :Flx... A011 BK3222....
> PlnK3222....Ep163A102a347bEe533E143C {CDaAA
```

>
> Note that these are standard message format. You have the solar flux
> number (... means not available for that report), A and K numbers along
> with the E flux numbers. If you play with
> <http://www.aprs-is.net/wx/finger.asp> as indicated before, you can see
> the full text message that corresponds to the last APRS packet sent.
>
> I have APRS+SA set up to gate to RF anything from callsigns starting
> with SEC (SEC* is the actual setting in APRS+SA). These messages all
> originate from SEC so they get gated to RF.
>
> As for software parsing it, all software should parse it. You may need
> to add SKYSEC to your group bulletin list to see the informational
> messages.
>
> Hope this helps. I have found it very helpful, especially when there
> have been solar flares. I have usually found a warning issued via SEC
> before the band I am working goes dead.
>
> 73,
>
> Pete Loveall AE5PL
> pete@ae5pl.net

--
What's cool in Amateur Radio?

<http://www.BEACONet.org> or join the on-line community by
sending a blank eMail to: BEACONet-subscribe@yahoogroups.com

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Sat Apr 12 11:24:55 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id LAA19808
for <lyris.aprsspec@tapr.org>; Sat, 12 Apr 2003 11:24:54 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Sat, 12 Apr 2003 12:23:07 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: WWV Data?
In-Reply-To: <LYR11586-128392-2003.04.12-09.21.25--bruninga#nadm.navy.mil@lists.tapr.org>

Message-ID: <LYR11589-128439-2003.04.12-12.14.59--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (<http://amavis.org/>)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0304121222540.17225-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Its free format
Bob

On Sat, 12 Apr 2003, Ev Tupis (W2EV) wrote:

> > Someone in our area transmits WWV bulletins every now and then I see them
> > on my mobile...
>
> Hi Bob,
> Is there a standard APRS format for such data, or is it just free-form comment
> text?
>
> Ev
>
>
> ---
> You are currently subscribed to aprsspec as: bruninga@nadn.navy.mil
> To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
> Questions regarding the SIG go to the SIG administrator: wallou@tapr.org
>

de WB4APR@amsat.org, Bob

PCsat WEB page <http://www.ew.usna.edu/~bruninga/pcsat.html>
ISS-APRS FAQ: <http://www.ew.usna.edu/~bruninga/iss-faq.html>
CUBESAT Designs <http://www.ew.usna.edu/~bruninga/cubesat.html>
APRS LIVE pages <http://www.ew.usna.edu/~bruninga/aprs.html>
APRS SATELLITES <http://www.ew.usna.edu/~bruninga/astars.html>
MIM/Mic-E/Mic-Lite <http://ssdl.stanford.edu/mims/>

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org

To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tappr.org
Questions regarding the SIG go to the SIG administrator: wallou@tappr.org

From bounce-aprsspec-11589@lists.tappr.org Sat Apr 12 13:28:45 2003
Received: from lists.tappr.org (lists.tappr.org [204.17.217.24])
by tappr.org (8.9.3/8.9.3/1.16) with SMTP id NAA24130
for <lyris.aprsspec@tappr.org>; Sat, 12 Apr 2003 13:28:44 -0500 (CDT)
Message-ID: <LYR11589-128448-2003.04.12-14.17.25--
lyris.aprsspec#tappr.org@lists.tappr.org>
From: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
To: "APRS Spec Discussion List" <aprsspec@lists.tappr.org>
Subject: [aprsspec] Filtering for PWM synthesized FSK
Date: Sat, 12 Apr 2003 18:26:36 -0000
MIME-Version: 1.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Subscribe: <mailto:subscribe-aprsspec@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-31948I@lists.tappr.org>
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tappr.org>
Content-Type: text/plain;
charset="iso-8859-1"
List-Software: Lyris Server version 3.0
List-Owner: <mailto:owner-aprsspec@lists.tappr.org>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tappr.org>>
Reply-To: Miller Scott Contr 30SCS/FTI <Scott.Miller@vandenberg.af.mil>
X-Message-Id:
<7BF8A28ADD2DD511B5020090278586EE01A3FD09@fsxumu03.vandenberg.af.mil>
Sender: bounce-aprsspec-11589@lists.tappr.org
Precedence: bulk

I'm working on a simple AX.25 encoder system to be used in an ultracheap KISS TNC and a MIM-style telemetry module, and I've got a question some of you might be able to answer.

To generate the FSK tones, I'm using a sine lookup table to drive a pulse-width modulated output. The PWM output goes through an RC circuit to smooth it out, and ideally should go into a low-pass filter to remove the carrier and harmonics generated by the PWM sample frequency. My question is, if I'm feeding the audio into a radio, how necessary is that filtering? Is the radio itself going to have a low-pass filter? If filtering is necessary, can someone recommend a simple filter circuit?

The desired output frequencies are 1200 and 2200 hz, of course, and the PWM sample rate will probably be around 32 or 64 khz. Maybe less, if practical.

Please forgive my ignorance on this subject... I'm a digital guy, and my analog experience is seriously lacking.

Thanks...

Scott
N1VG

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wailou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon Apr 21 18:48:12 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id SAA27744
for <lyris.aprsspec@tapr.org>; Mon, 21 Apr 2003 18:48:08 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Mon, 21 Apr 2003 19:38:40 -0400
Subject: [aprsspec] Packet Status Register deadline nears
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-129449-2003.04.21-19.38.23--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <BAC9F940.E2D6%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

The deadline for the next issue of Packet Status Register (PSR), TAPR's quarterly newsletter, is Thursday, April 24, so please get your submissions to me as quick as a bunny!

73,

Stan, WA1LOU

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org

Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 5 19:31:30 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA10109
for <lyris.aprsspec@tapr.org>; Mon, 5 May 2003 19:31:29 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Mon, 05 May 2003 20:00:28 -0400
Subject: [aprsspec] Spring 2003 issue of Packet Status Register (PSR) now
available
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-131532-2003.05.05-20.19.22--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="ISO-8859-1"
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Stan Horzepa <stanzepa@earthlink.net>
X-Message-Id: <BAD735C.E88E%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
Content-Transfer-Encoding: 8bit
X-MIME-Autoconverted: from quoted-printable to 8bit by tapr.org id TAA10109

The Spring 2003 issue of Packet Status Register (PSR), TAPR's quarterly
newsletter is now available at the TAPR web site (www.tapr.org).

This issue of PSR has the following contents:

802.11b Used in Ham's Shuttle Recovery Efforts by Doug Kilgore, KD5OUG

A New Tactical Reporting Protocol by Scott Miller, N1VG

Announcing N2YGK's Linux aprsdigi Version 2.4.3 3 by Alan
Crosswell, N2YGK

APRS IP Mobile in a Non-Dynamic Wireless Environment or 802.11 APRS by
Darryl Smith, VK2TDS

Portable Tactical Digital Communications Using Off-the-Shelf Consumer
Components by Ed Carp, N7EKG

President's Corner: Dayton, Directors and the DCC by John Ackermann, N8UR

Real Networking: Is It the Key to Keeping & Reviving Packet? by Ron Sauer,
K9RKI

Revitalizing "Plain" Packet by Jim Wagner, KA7EHK

TAPR and ARRL 22nd Annual Digital Communications Conference

TAPR Membership by Darryl Smith, VK2TDS

TAPR Order Form

WA8WDQ Replaces K0PFX on TAPR Board

Welcome to Jeannie, The House That Listens by Don Marquardt, K9SOA

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 13 09:16:43 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id JAA04197
for <lyris.aprsspec@tapr.org>; Tue, 13 May 2003 09:16:43 -0500 (CDT)
Date: Tue, 13 May 2003 10:15:19 -0400
From: "John R. Ackermann N8UR" <jra@febo.com>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Subject: [aprsspec] Last Reminder: Hamvention Digital Bash!
Message-ID: <LYR11589-132597-2003.05.13-10.08.18--
lyris.aprsspec@tapr.org>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit
Content-Disposition: inline
X-SA-Relays-Untrusted: [ip=192.168.1.220 rdns=fluffles.febo.com helo=localhost
by=febo.com ident=]
X-Spam-Status: No, hits=-6.4 required=5.0
tests=BAYES_00
version=2.60-cvs
X-Spam-Checker-Version: SpamAssassin 2.60-cvs (1.186-2003-05-09-exp)
List-Unsubscribe: <<mailto:leave-aprsspec-11589P@lists.tapr.org>>
List-Software: Lyris Server version 3.0
List-Subscribe: <<mailto:subscribe-aprsspec@lists.tapr.org>>
List-Owner: <<mailto:owner-aprsspec@lists.tapr.org>>
X-List-Host: Tucson Amateur Packet Radio <<http://www.tapr.org>>
Reply-To: "John R. Ackermann N8UR" <jra@febo.com>
X-Message-Id: <8387911.1052820919@WUSJA129861-PSE.corp.ncr.com>
Sender: bounce-aprsspec-11589@lists.tapr.org

Precedence: bulk

Just a reminder that the annual TAPR Digital BASH will be held Friday evening at Hamvention. Our keynote speaker will be Gerald Youngblood, AC50G, who will describe -- and demonstrate -- his HF software defined radio, the SDR-1000. I have been playing with the SDR-1000 myself, and it is a real step forward for ham SDR experimentation. If you're at Hamvention, you'll want to hear Gerald and see the radio in action.

Tickets are \$25 and will be available at the TAPR booth up until about 3:45 Friday afternoon, when we have to call in the final count. Directions to the banquet hall will also be available at the booth.

And, remember that TAPR will have a bigger and better presence at Hamvention this year. Our new booth spaces are 607, 608, and 615, just a little bit down and over from our old spot.

See you there!

73,
John N8UR

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Mon May 19 17:33:04 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id RAA08570
for <lyris.aprsspec@tapr.org>; Mon, 19 May 2003 17:33:03 -0500 (CDT)
X-Authentication-Warning: arctic.usna.edu: bruninga owned process doing -bs
Date: Mon, 19 May 2003 18:32:29 -0400 (EDT)
From: Bob Bruninga <bruninga@usna.edu>
X-X-Sender: bruninga@arctic
cc: APRS Spec Discussion List <aprsspec@lists.tapr.org>
Subject: [aprsspec] Re: Clarification of User Defined Data
In-Reply-To: <LYR11586-124537-2003.03.15-08.44.09--
bruninga#nadm.navy.mil@lists.tapr.org>
Message-ID: <LYR11589-133410-2003.05.19-18.25.06--
lyris.aprsspec#tapr.org@lists.tapr.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
X-Virus-Scanned: by amavisd-milter (http://amavis.org/)
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0
List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>

List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Bob Bruninga <bruninga@usna.edu>
X-Message-Id: <Pine.GS0.4.44.0303161414370.25440-100000@arctic>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>

On Sat, 15 Mar 2003, Steve Dimse wrote:

> >Also...what UDD's have been assigned already?
> >
> I don't think any have officially been assigned, if I'm wrong, perhaps
> Bob can post a list. I know at least one person has claimed to have
> tried to get one registered and when that failed just began using what
> he wanted.

I have assignemd one to everyone that has asked, though I was slow in response to one... There is a list on my Errata page:

<http://www.ew.usna.edu/~bruninga/aprs-errata.html>

de WB4APR, Bob

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org

From bounce-aprsspec-11589@lists.tapr.org Tue May 20 19:51:22 2003
Received: from lists.tapr.org (lists.tapr.org [204.17.217.24])
by tapr.org (8.9.3/8.9.3/1.16) with SMTP id TAA25714
for <lyris.aprsspec@tapr.org>; Tue, 20 May 2003 19:51:21 -0500 (CDT)
User-Agent: Microsoft-Entourage/10.1.1.2418
Date: Tue, 20 May 2003 20:45:42 -0400
Subject: [aprsspec] Call for Papers
From: Stan Horzepa <stanzepa@earthlink.net>
To: "APRS Spec Discussion List" <aprsspec@lists.tapr.org>
Message-ID: <LYR11589-133564-2003.05.20-20.42.02--
lyris.aprsspec#tapr.org@lists.tapr.org>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit
List-Unsubscribe: <mailto:leave-aprsspec-11589P@lists.tapr.org>
List-Software: Lyris Server version 3.0

List-Subscribe: <mailto:subscribe-aprsspec@lists.tapr.org>
List-Owner: <mailto:owner-aprsspec@lists.tapr.org>
X-List-Host: Tucson Amateur Packet Radio <http://www.tapr.org>
Reply-To: Stan Horzempa <stanzepa@earthlink.net>
X-Message-Id: <BAF04476.EF8A%stanzepa@earthlink.net>
Sender: bounce-aprsspec-11589@lists.tapr.org
Precedence: bulk

Technical papers are solicited for presentation at the 22nd Annual ARRL and TAPR Digital Communications Conference to be held September 19-21, 2003 in Hartford, Connecticut, and publication in the Conference Proceedings. Annual conference proceedings are published by the ARRL. Presentation at the conference is not required for publication. Submission of papers are due by August 5th, 2003 and should be submitted to:

Maty Weinberg, ARRL
225 Main Street
Newington, CT 06111

or via the Internet to
maty@arrl.org

You are currently subscribed to aprsspec as: lyris.aprsspec@tapr.org
To unsubscribe send a blank email to leave-aprsspec-11589P@lists.tapr.org
Questions regarding the SIG go to the SIG administrator: wallou@tapr.org